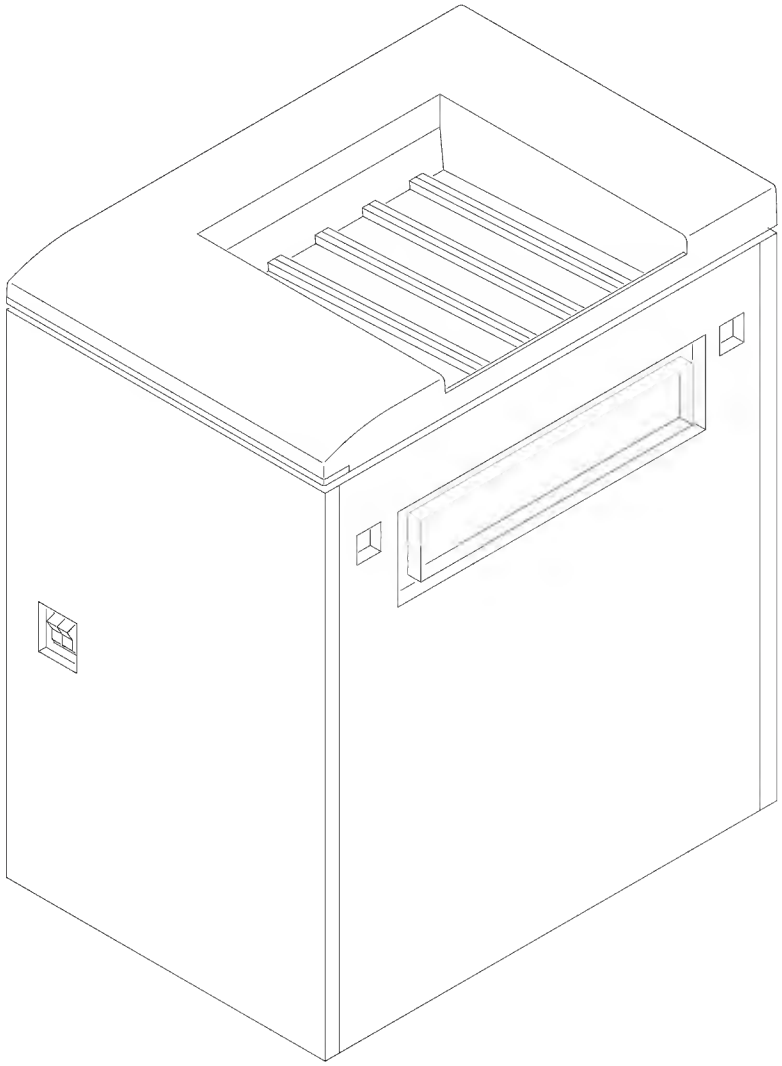
Publication No. 1C7836
February 1996
Supersedes July 1995

INSTALLATION INSTRUCTIONS for the *Kodak X-Omat* 180 LP and 180 LPS PROCESSORS



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This equipment includes parts and assemblies sensitive to damage from electrostatic discharge. Use caution to prevent damage during all service procedures.

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Section 1: Electrostatic Discharge

Overview

ESD — electrostatic discharge — is a primary source of:

- product downtime
- lost productivity
- costly repairs

While one cannot feel a static charge of less than 3,500 volts, as few as 30 volts can damage or destroy essential components in electronic equipment.

Preventive Measures

- Always look for an ESD warning label before doing any procedure involving static-sensitive components such as CIRCUIT BOARDS. All static-sensitive components are marked with bright graphic labels, which frequently include instructions. Follow all label instructions.
- Wear a grounding strap when handling static-sensitive components. Always make certain that the clip remains attached to a properly grounded, unpainted, clean surface.
- Repair static-sensitive components at an ESD-protected work station or use a portable grounding mat. For help in setting up an ESD-protected work station, contact your Kodak representative.
- When moving static-sensitive components from one area to another, insert and transport the components in ESD-protective packaging. Transparent antistatic bags are available from a variety of manufacturers and will help shield components from ESD damage.

Section 2: Preparing the PROCESSOR for Installation

Special Tools Required

The following tools are required:

Tool or Part No.	Description
---	PORTABLE COMPUTER *
TL-1434	LEVEL - approximately 30.5 cm (12 in.)
TL-1926	MAGNETIC POWER WARNING SIGN
TL-2431	AIR METER
TL-2296	TAPE MEASURE
TL-4391	INTERFACE CABLE
5B6278	DIAGNOSTICS DISKETTE

Note

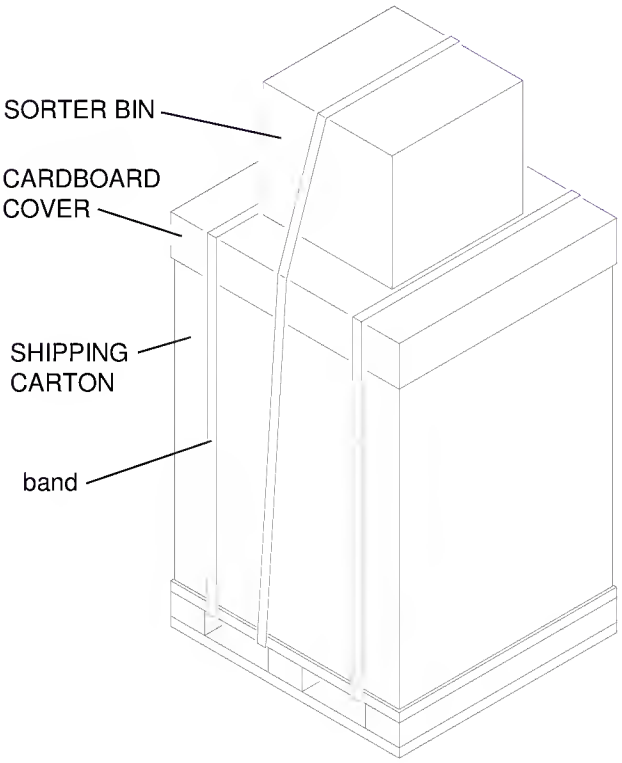
* The following relates to the PORTABLE COMPUTER:

- An IBM compatible PORTABLE COMPUTER with MS-DOS version 3.0 or higher installed on the hard disk and with a 720 KB 3 1/2 in. disk drive.
- A serial communication port configured as COM1: See the User Manual for the PORTABLE COMPUTER.

Important

- Use only qualified personnel to install the PROCESSOR.
- Before installation of the PROCESSOR, review the Section “Electrostatic Discharge” on Page 3 to ensure that components do not become damaged during installation of the JUMPERS in the PROCESSOR.

Unpacking the PROCESSOR



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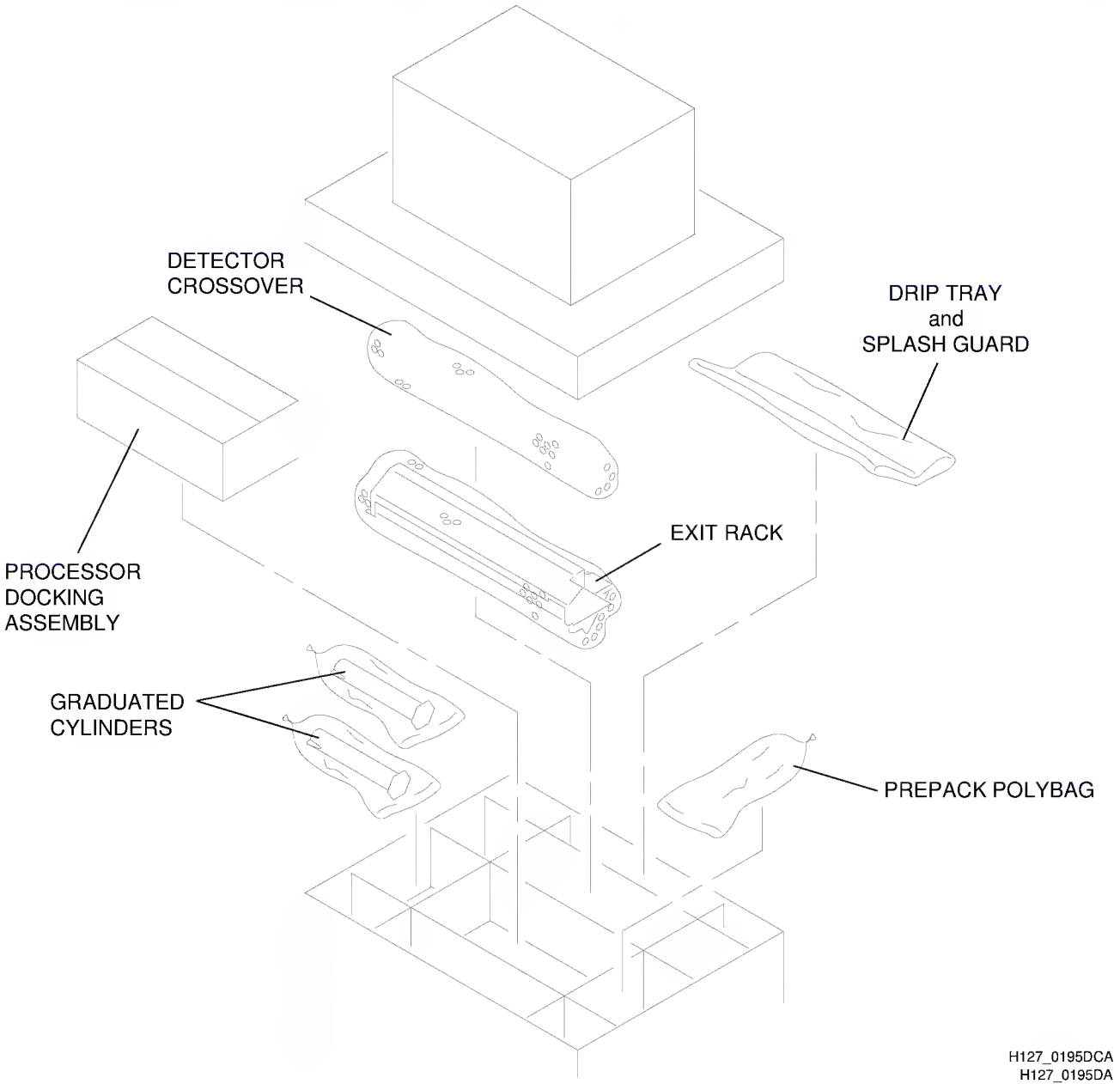
Note

Install the PROCESSOR before you install the *Kodak Ektascan* 2180 LASER PRINTER.

[1] Cut and remove the bands around the outside of the SHIPPING CARTON.

[2] For the 180 LPS PROCESSOR only, remove the SORTER BIN from the top of the main SHIPPING CARTON.

[3] Remove the CARDBOARD COVER from the SHIPPING CARTON.

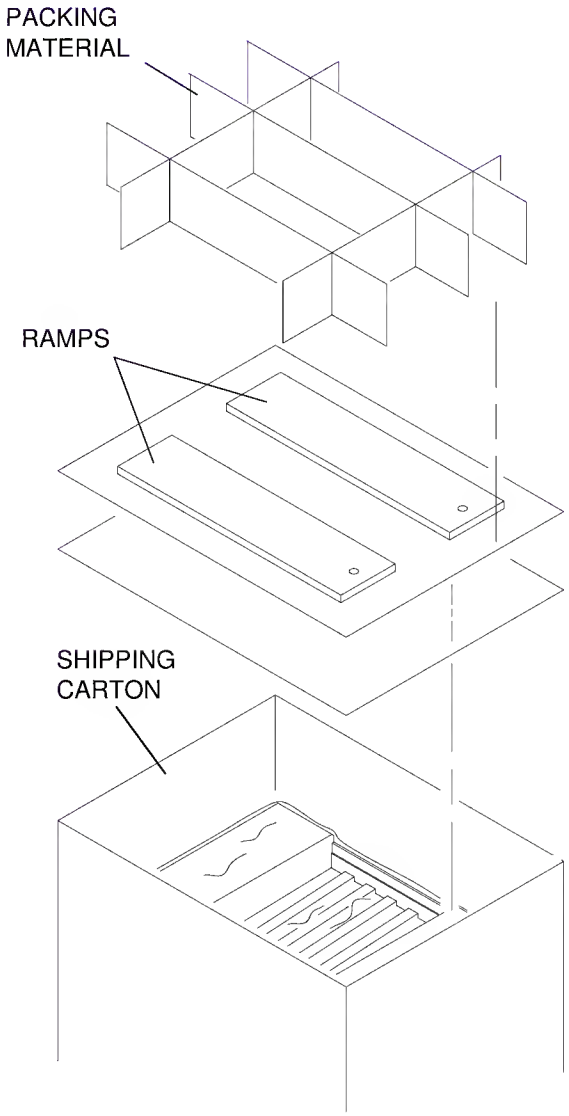


[4] Remove:

- GRADUATED CYLINDERS
- EXIT RACK
- DETECTOR CROSSOVER
- DRIP TRAY and SPLASH GUARD
- PROCESSOR DOCKING ASSEMBLY
- PREPACK POLYBAG

Note

The PROCESSOR DOCKING ASSEMBLY is not used during the installation of the PROCESSOR.



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[5] Remove the:

- PACKING MATERIAL from the top of the PROCESSOR
- RAMPS with the BOLTS
- For the 180 LP PROCESSOR only, the service publication, Publication Part No. 1C7834

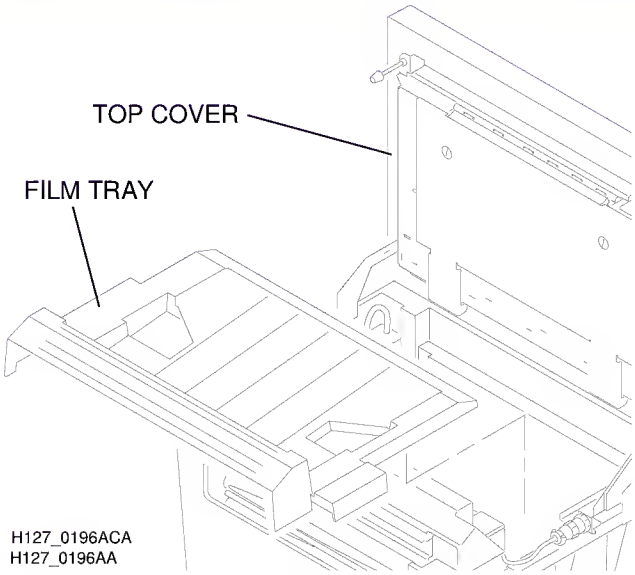
Note

The service publication for the 180 LPS PROCESSOR will be removed later in the unpacking procedure.

[6] Lift the SHIPPING CARTON to remove it from the PROCESSOR.

[7] Remove the plastic from the PROCESSOR.

[8] Check that the contents of the SHIPPING CARTON match the Packing List.

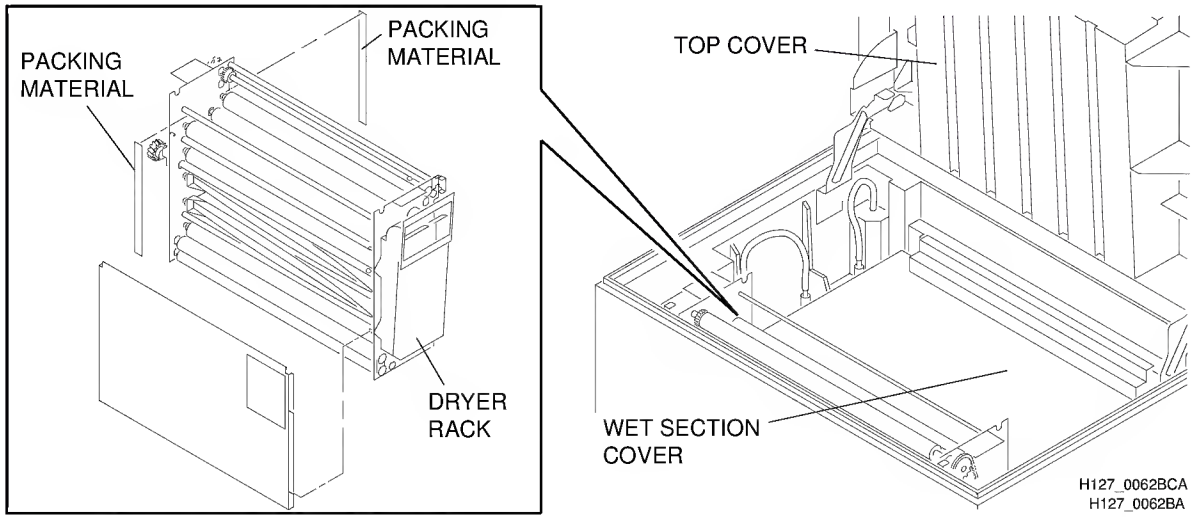


[9] Lift the TOP COVER of the PROCESSOR.

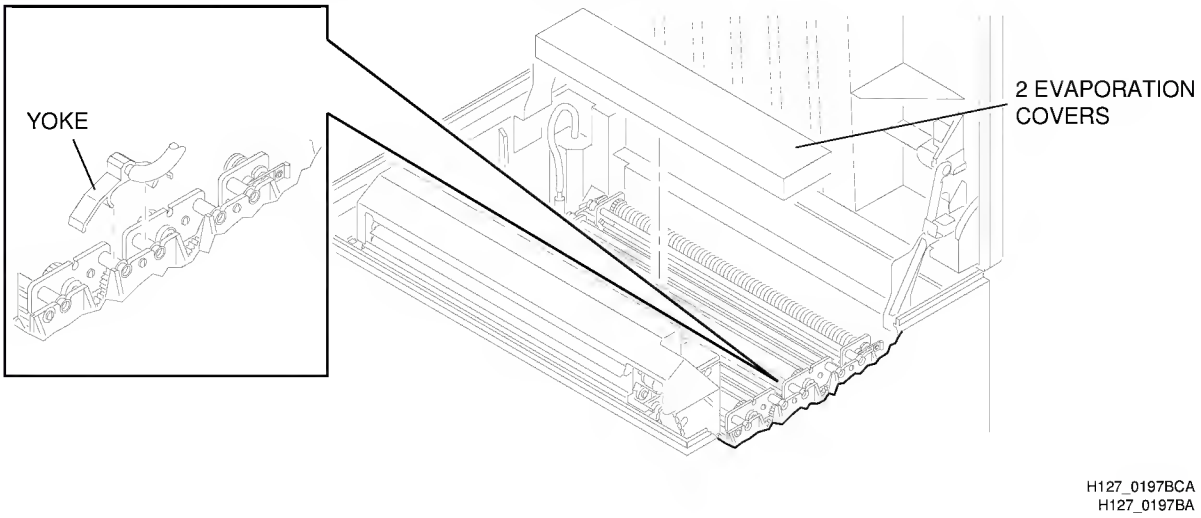
[10] For the 180 LPS PROCESSOR only, remove the FILM TRAY.

[11] Remove the WET SECTION COVER and the PACKING MATERIAL around it.

[12] Remove the DRYER RACK and the 2 pieces of PACKING MATERIAL inside the DRYER.



[13] Remove the YOKE and the EVAPORATION COVERS.

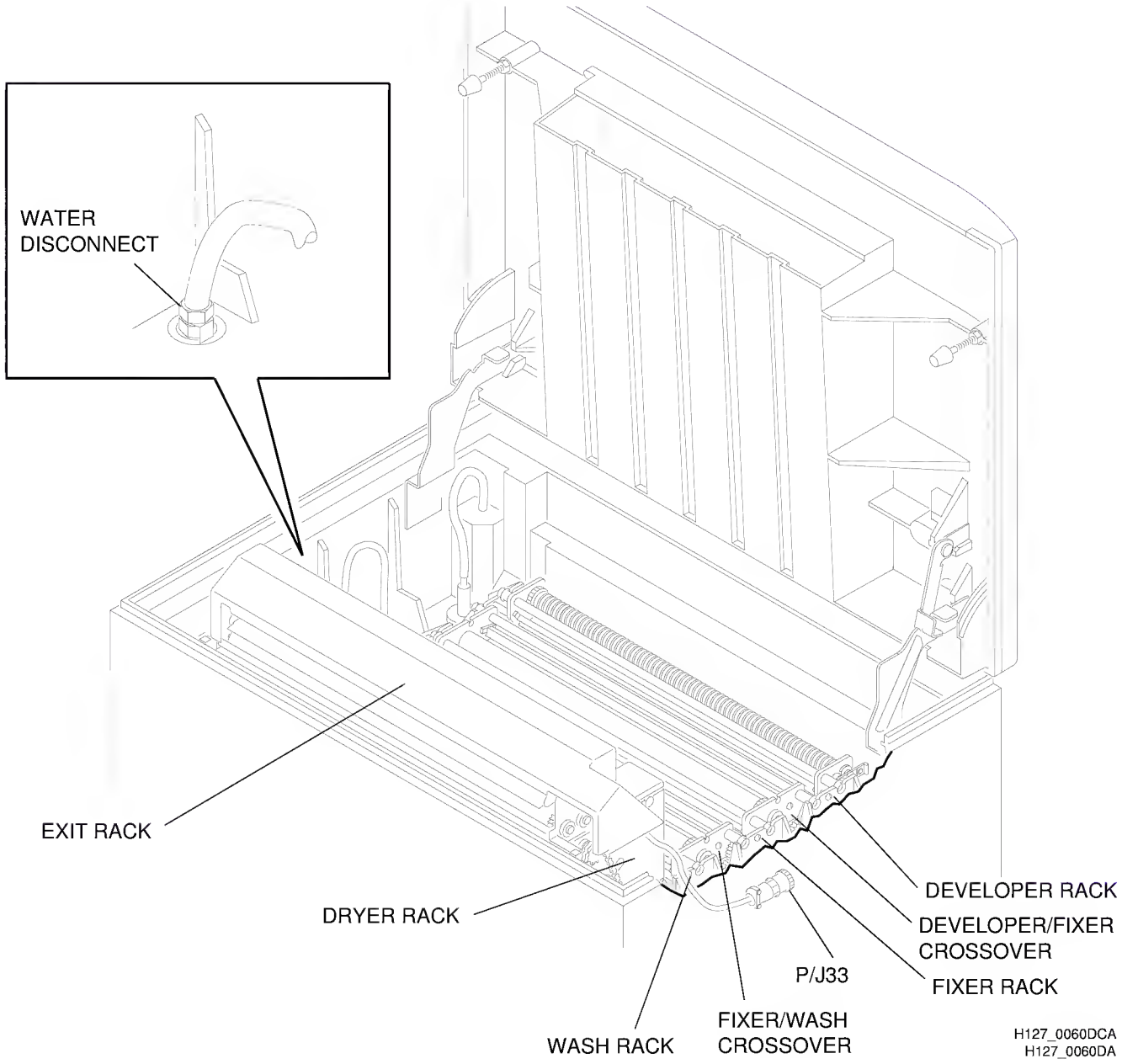


[14] Remove the DEVELOPER/FIXER CROSSOVER and the FIXER/WASH CROSSOVER.

[15] Disconnect the WATER DISCONNECT.

[16] Remove:

- WASH RACK
- FIXER RACK
- DEVELOPER RACK
- packing materials



Note

To remove a PANEL:

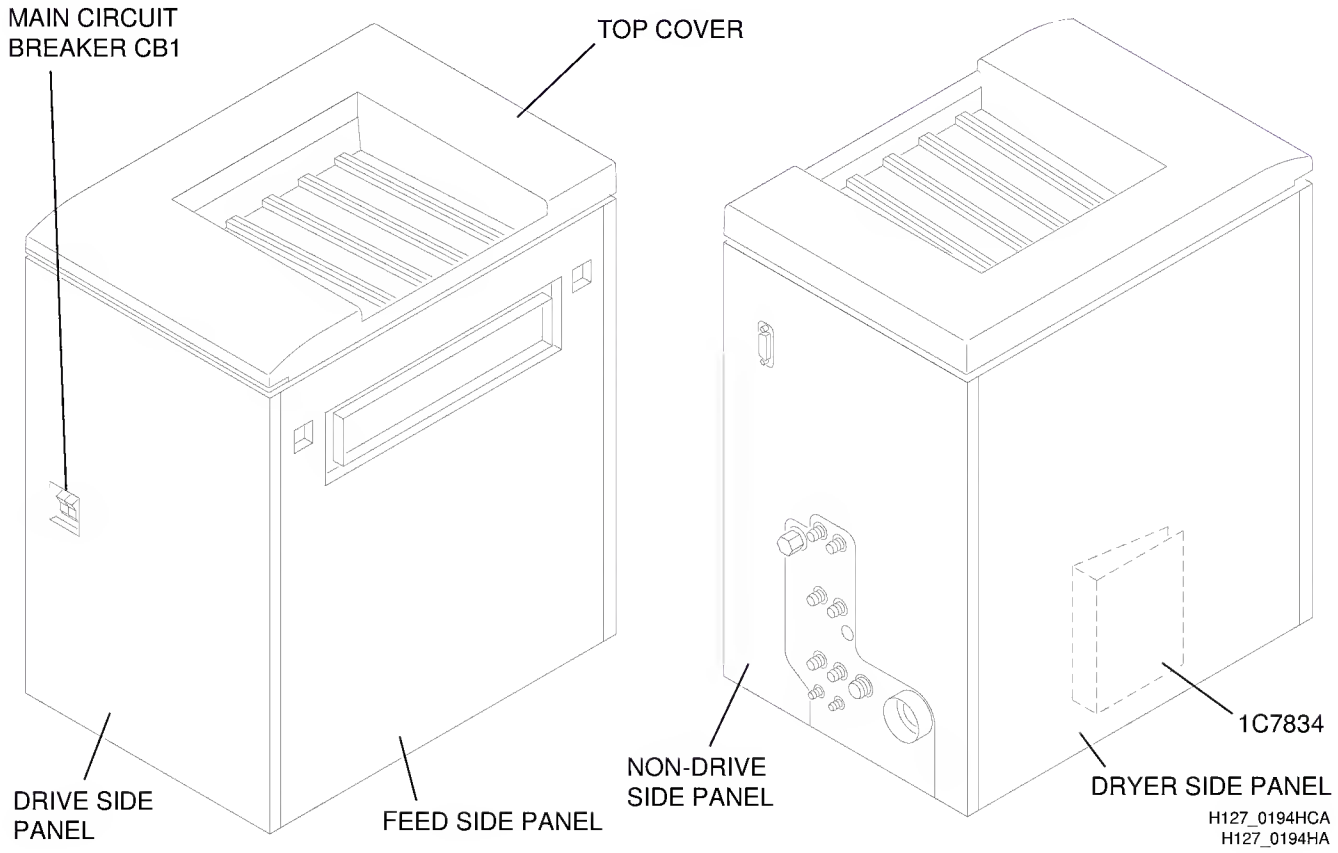
- Loosen the CAPTIVE SCREWS.
- Lift the PANEL and remove.

[17] Remove:

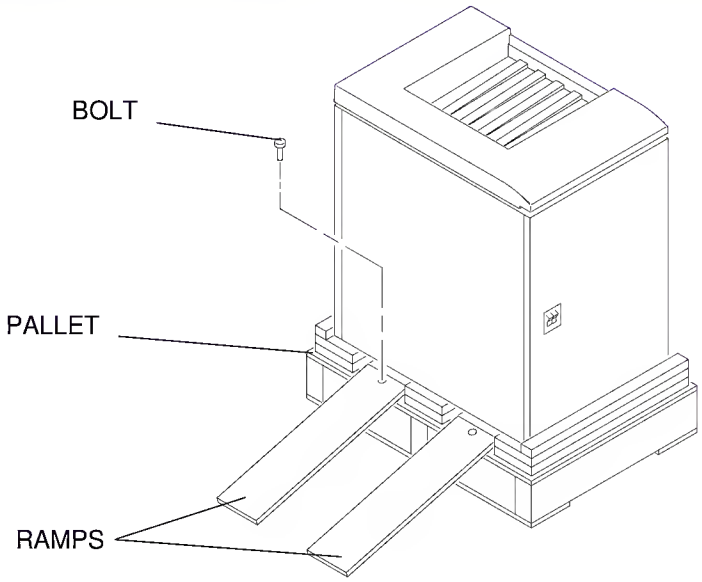
- tape
- FEED SIDE PANEL
- DRYER SIDE PANEL

[18] For the 180 LPS PROCESSOR only, remove the service publication, Publication Part No. 1C7834.

[19] Close the TOP COVER.



Moving the PROCESSOR off the PALLET



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[20] Install the RAMPS onto the PALLET.

[21] Insert the BOLTS into the holes in the RAMP through the PALLET.

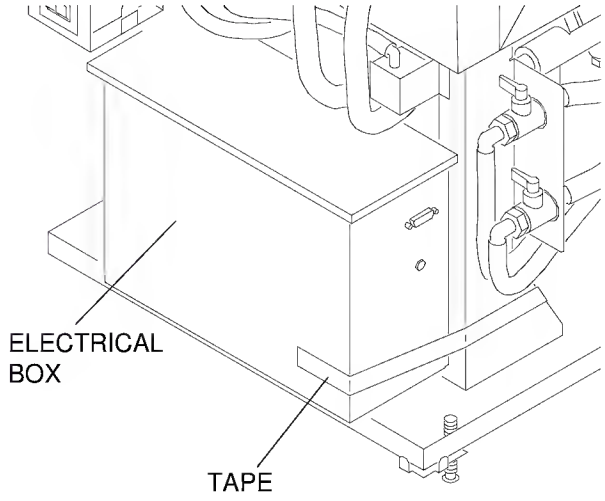
Important

Do not use the TOP COVER to move the PROCESSOR.

Warning

The PROCESSOR weighs over 135 kg (300 lb) and is on casters. Personnel injury could occur if adequate assistance is not taken.

[22] Carefully move the PROCESSOR off the PALLET onto the RAMPS and onto the floor.



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[23] Lift the TOP COVER and remove the DRIVE SIDE PANEL and the NON-DRIVE SIDE PANEL.

[24] Remove the TAPE holding the ELECTRICAL BOX.

Checking the DRIVE SHAFT SPROCKET

Note

The 180 LPS PROCESSOR uses an ENCODER WHEEL/SPROCKET, and not a DRIVE SHAFT SPROCKET.

[1] Remove the 2 SCREWS and the DRIVE CHAIN COVER.

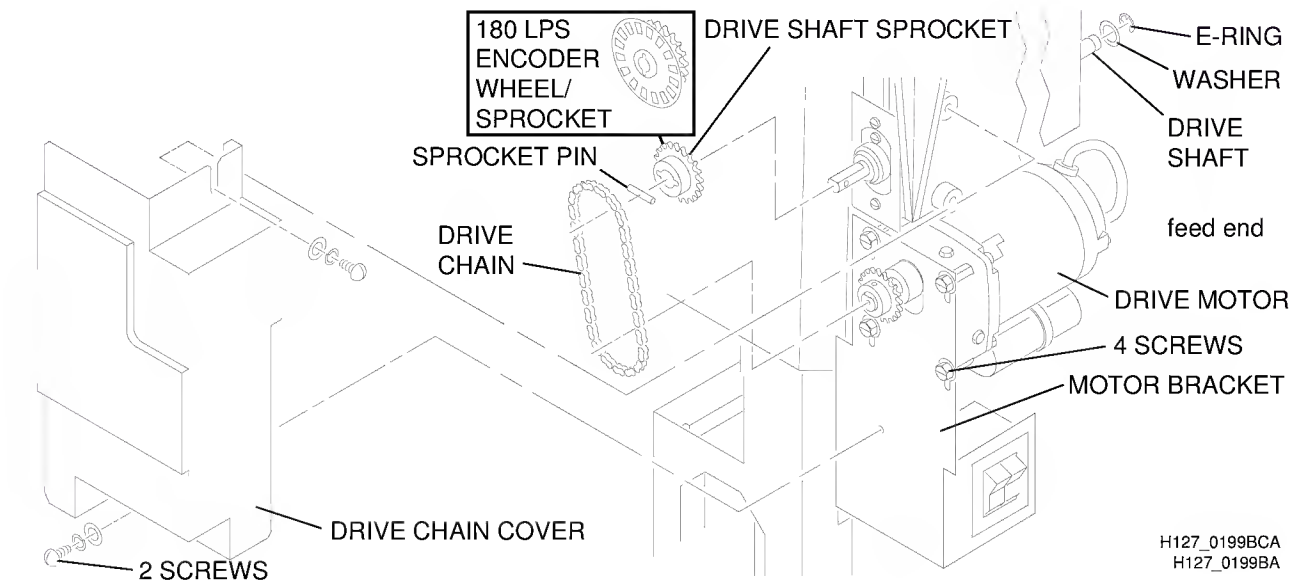
Important

For 60 Hz operation, use the 20-tooth DRIVE SHAFT SPROCKET. For 50 Hz operation, use the 17-tooth DRIVE SHAFT SPROCKET.

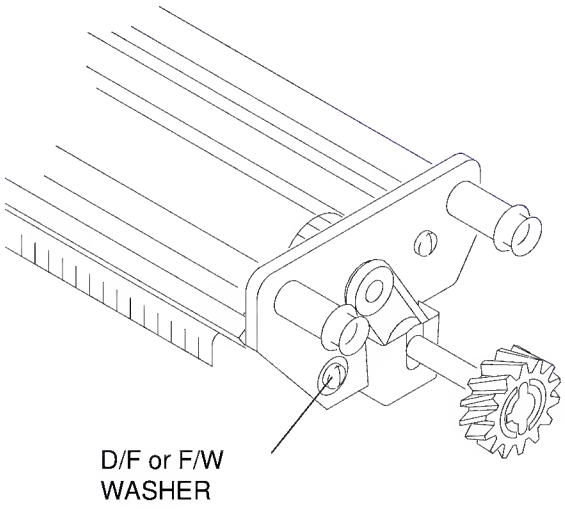
[2] Check that the correct DRIVE SHAFT SPROCKET is installed in the PROCESSOR.

[3] To change the DRIVE SHAFT SPROCKET, do the following steps.

- **(a)** Loosen the 4 SCREWS from the MOTOR BRACKET.
- **(b)** Lift the DRIVE MOTOR and remove the DRIVE CHAIN.
- **(c)** Remove the E-RING and WASHER from the feed end of the DRIVE SHAFT.
- **(d)** For access to the SPROCKET PIN, move the DRIVE SHAFT toward the DRYER end of the PROCESSOR.
- **(e)** Remove the SPROCKET PIN and the DRIVE SHAFT SPROCKET.
- **(f)** Install the new DRIVE SHAFT SPROCKET.
- **(g)** Reverse the above procedure to assemble.



Installing the RACKS



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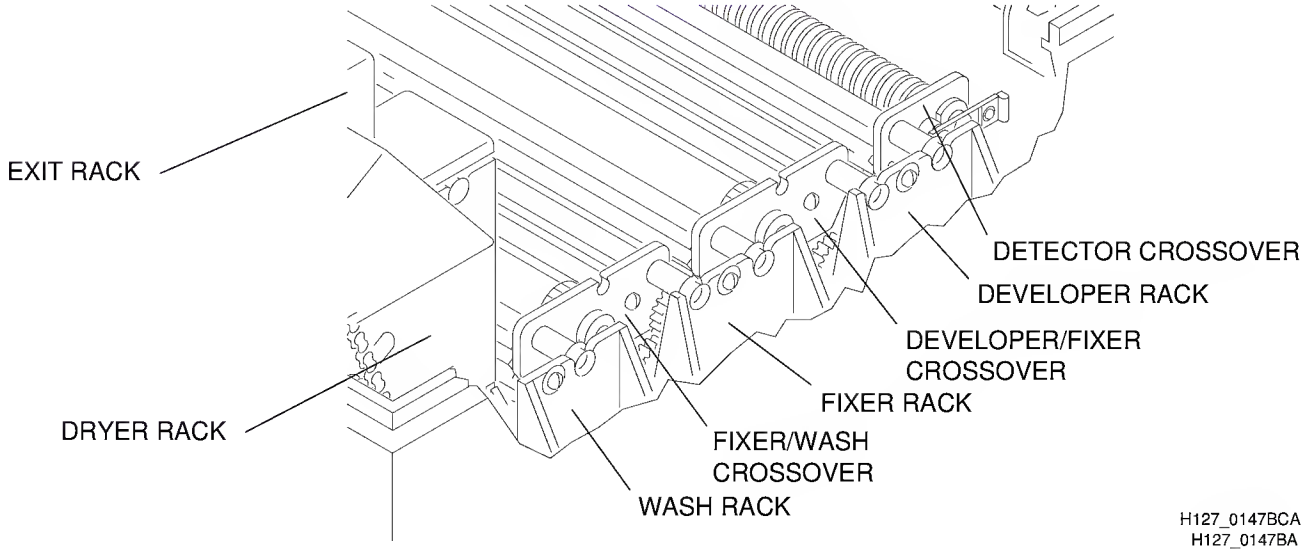
Note

The RACKS and CROSSOVERS have WASHERS, that identify them; “D” indicates DEVELOPER and “F” indicates FIXER.

[1] Check the squareness of each RACK and CROSSOVER before installing it. See the RACK section of Adjustments and Replacments, Publication Part No. 1C7837, for the procedures to check for squareness.

[2] Install the:

- DEVELOPER RACK
- FIXER RACK
- WASH RACK
- DRYER RACK
- DETECTOR CROSSOVER
- DEVELOPER/FIXER CROSSOVER
- FIXER/WASH CROSSOVER
- EXIT RACK



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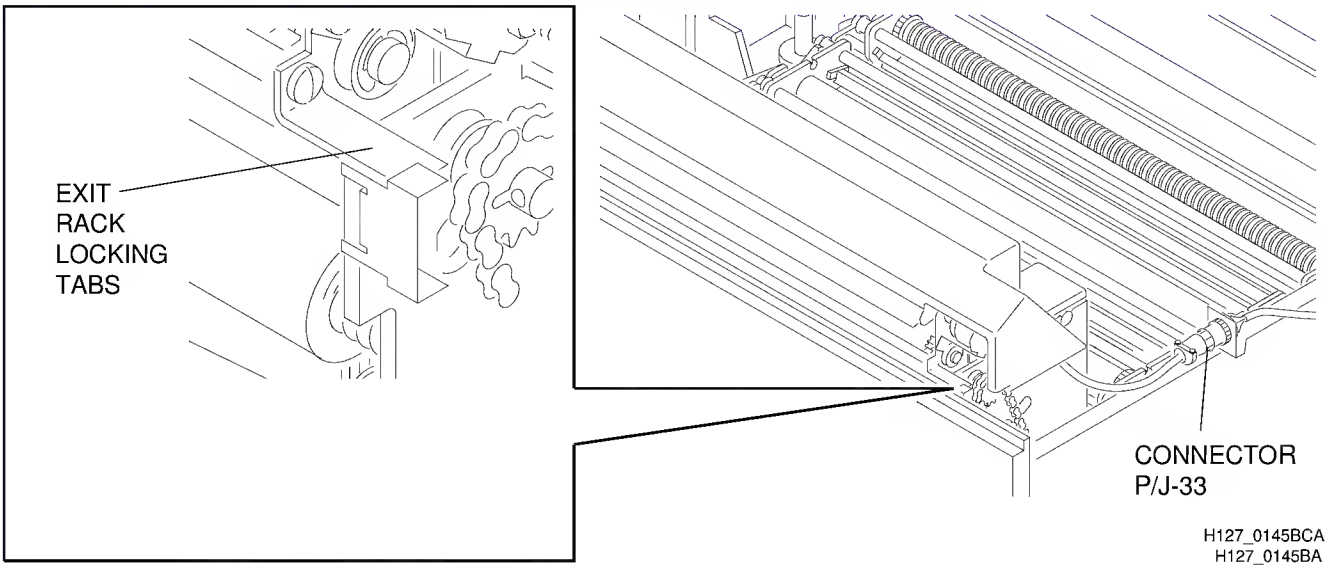
The Correct Position of the EXIT RACK LOCKING TABS



Important

The EXIT RACK LOCKING TABS must be in the correct positions.

[3] Check that all the RACKS are seated correctly.

[4] Connect the WATER DISCONNECT on the WASH RACK. Check that the WATER DISCONNECT is correctly seated. See the figures on Pages 8 and 9.

[5] Connect the YOKE between the DEVELOPER/FIXER and FIXER/WASH CROSSOVERS.

[6] Connect CONNECTOR P/J33.

Moving the PROCESSOR into Position and Leveling the PROCESSOR

[1] Install the LEVELING SCREW into the PROCESSOR BASE.

[2] Install the LEVELING FOOT by rotating it counterclockwise onto the LEVELING SCREW.

Note

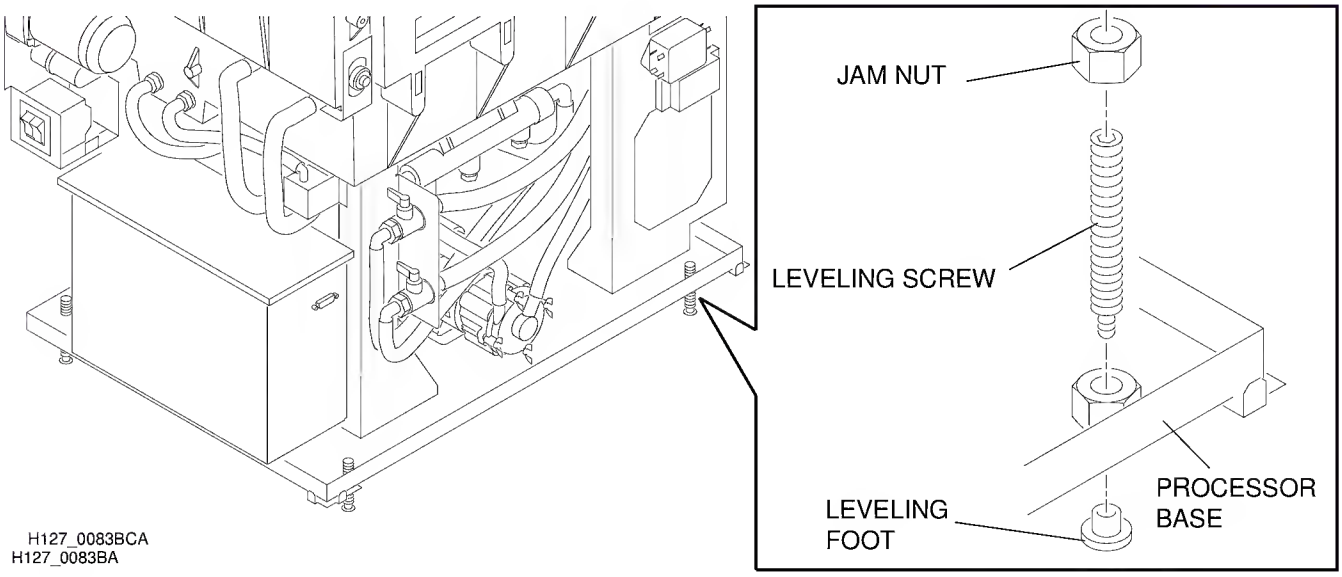
The LEVELING FOOT must be past the threads so that it pivots on the end of the LEVELING SCREW. Check that the LEVELING FOOT remains in this position until it touches the floor.

[3] Install the JAM NUT.

Note

Do not tighten the JAM NUT.

[4] Install the other 3 LEVELING SCREWS.



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[5] Move the PROCESSOR into its operating position.

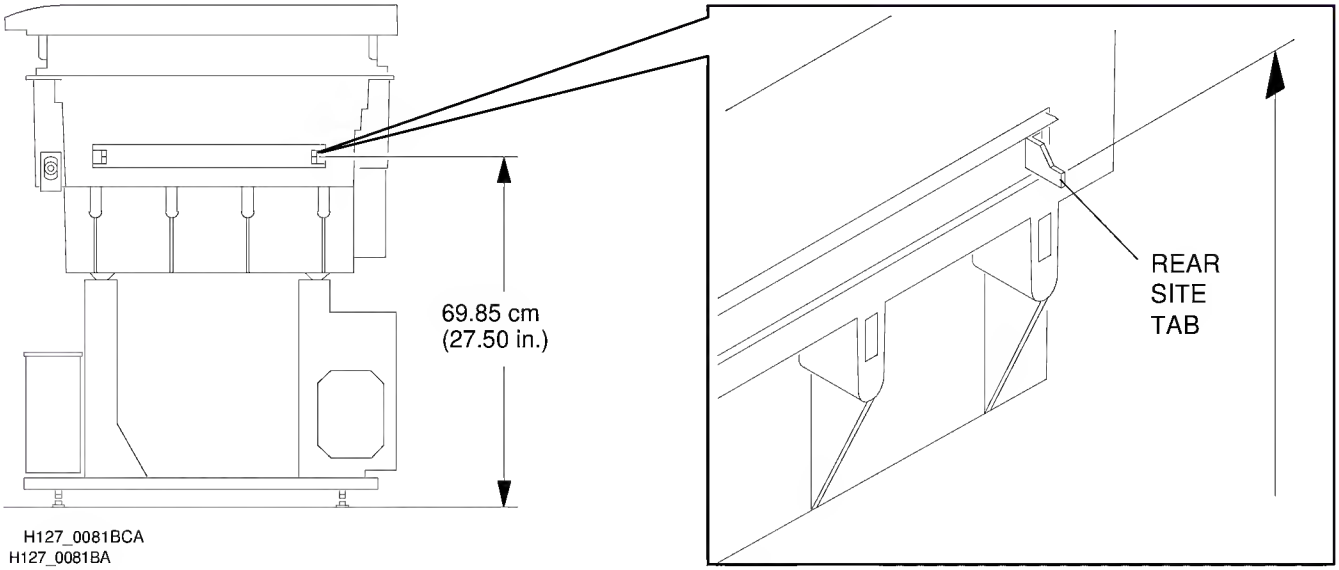
Important

Processor leveling is important for all PROCESSORS, but is critical for the SORTER to operate correctly on the 180 LPS PROCESSOR.

[6] Adjust the 4 LEVELING SCREWS until:

- The top of the REAR SITE TAB is 69.85 cm .16 cm (27 1/2 in. 1/6 in.) above the floor. Use the TAPE MEASURE TL-2296.
- The PROCESSOR is leveled from side-to-side and front-to-back. Use LEVEL TL-1434.

[7] Tighten the JAM NUTS on the LEVELING SCREWS.



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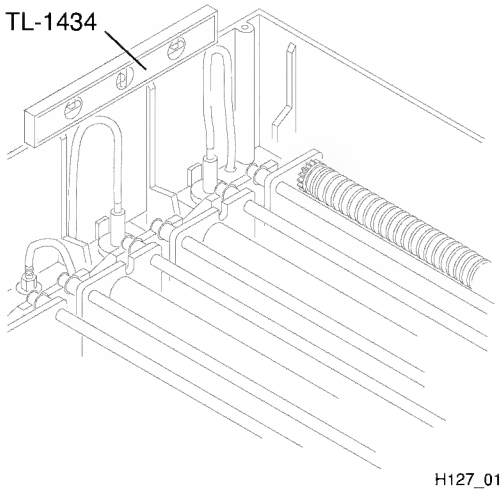

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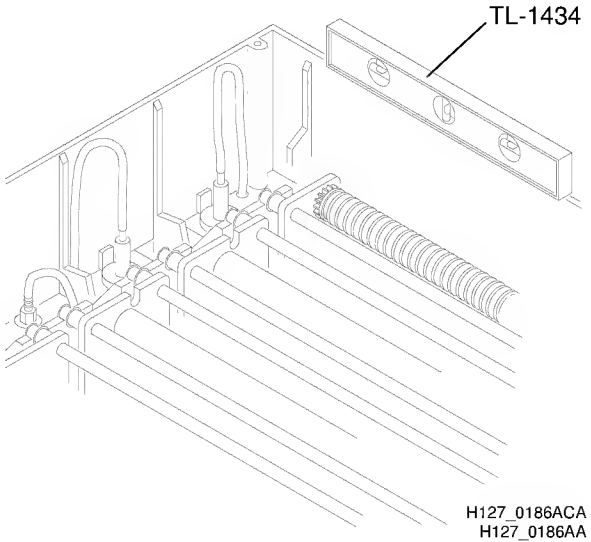

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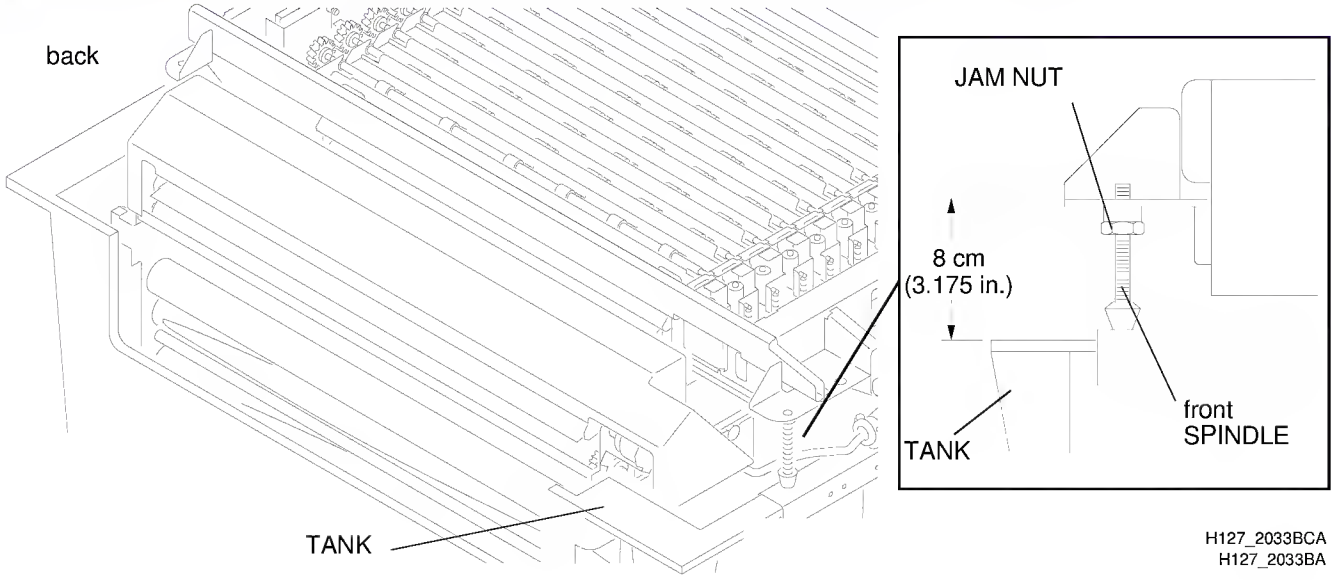
Measuring the Distance between the SORTER and the Processing TANK



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Important

Correct leveling of the PROCESSOR is critical for adjusting the height of the SORTER.

[1] Move the SORTER to the down position.

[2] Adjust the height of the SORTER.

(a) Loosen the JAM NUTS on the SPINDLES.

Note

If necessary, lift the back SPINDLE to allow adjustment of the front SPINDLE.

(b) Adjust the front SPINDLE until the height of the SORTER is 8 cm (3.175 or 3 $^{11}/_{64}$ in.) 1.3mm (0.050 or $^{3}/_{64}$ in.). See the figure.

(c) Observe the figure carefully to check that you are measuring from the correct points.

(d) Adjust the back SPINDLE until it just touches the TANK.

(e) Tighten the JAM NUTS.

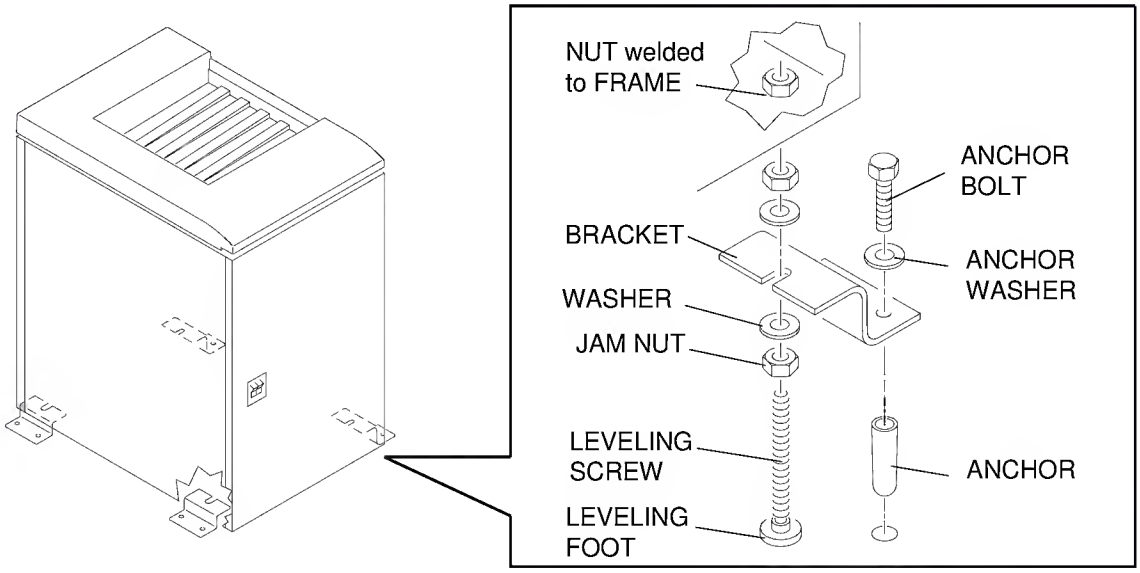
Section 3: Connecting the PROCESSOR

Installing the SEISMIC KIT

[1] If necessary, install the SEISMIC BRACKETS provided in the SEISMIC KIT, Part No. 981278.

Note

The SEISMIC KIT only includes 4 BRACKETS, 8 WASHERS, 8 JAM NUTS, and instructions. The customer is responsible for obtaining the ANCHORS, WASHERS, and BOLTS.



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Tightening the CLAMPS

Note

All adjustable metal band CLAMPS used to hold the TUBING to the FITTINGS in the PROCESSOR must be checked for tightness when the PROCESSOR is installed. Although a CLAMP may be properly tightened at the factory, shrinkage of the plastic TUBING will occur within a few weeks. Check and tighten the CLAMPS within 2 to 4 weeks after installation of the PROCESSOR and when replacement TUBING is installed with adjustable band CLAMPS.

[1] Tighten the CLAMPS.

Making the Electrical Connections

Warning
Dangerous Voltage.

Important
All electrical services, including earth ground, must comply with local and national electrical codes.

Table 3–1 Service Options

Voltage in volts	Frequency in Hz	Service
200	50/60	2-wire, single phase
220	50/60	2-wire, single phase
230	50/60	2-wire, single phase
240	50/60	2-wire, single phase
100/200	50/60	3-wire, single phase
120/240	60	3-wire, single phase
120/208	60	3 or 4-wire, 3-phase*
127/220	50	3 or 4-wire, 3-phase*, wye
220/380	50	3 or 4-wire, 3-phase*, wye
230/400	50	3 or 4-wire, 3-phase*, wye
240/415	50	3 or 4-wire, 3-phase*, wye
200/200	50/60	2 or 3-wire, 3-phase**, delta

Note
*L1/L2/N or L1/L2/L3/N may be used.

**L1/L2 or L1/L2/L3 may be used.

Warning
Dangerous Voltage. Move the main wall CIRCUIT BREAKER to “OFF”. Lock the main wall CIRCUIT BREAKER and attach a MAGNETIC POWER WARNING SIGN TL-1926 to warn others not to energize the PROCESSOR while you perform service. Move the CB1 on the PROCESSOR to the “O” position.

[1] Install the correct hardware in the AC POWER INPUT opening.

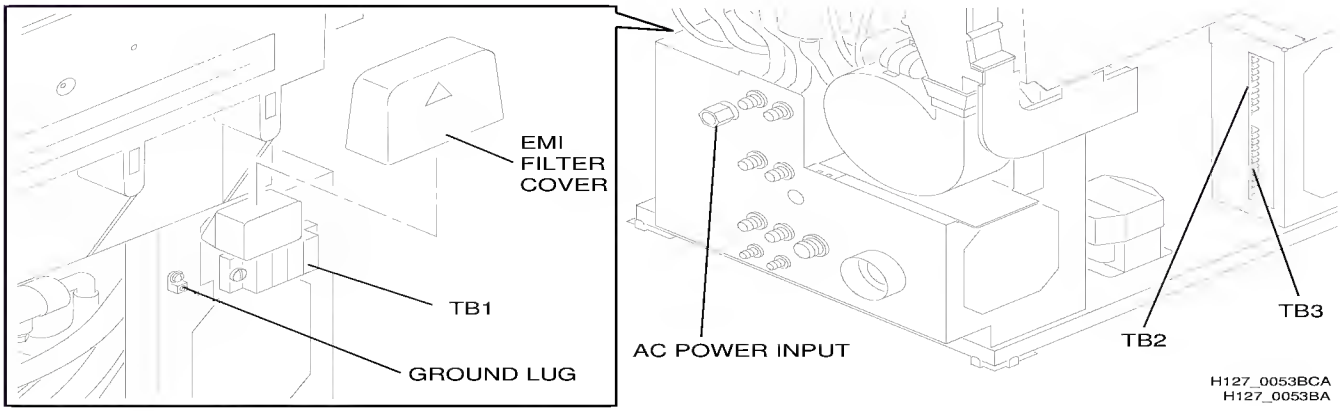
[2] Insert the customer’s main input power wires through the AC POWER INPUT opening.

[3] Remove the EMI FILTER COVER.

[4] Find the customer's electrical service on the Power Connection Charts on Pages 21 - 26 .

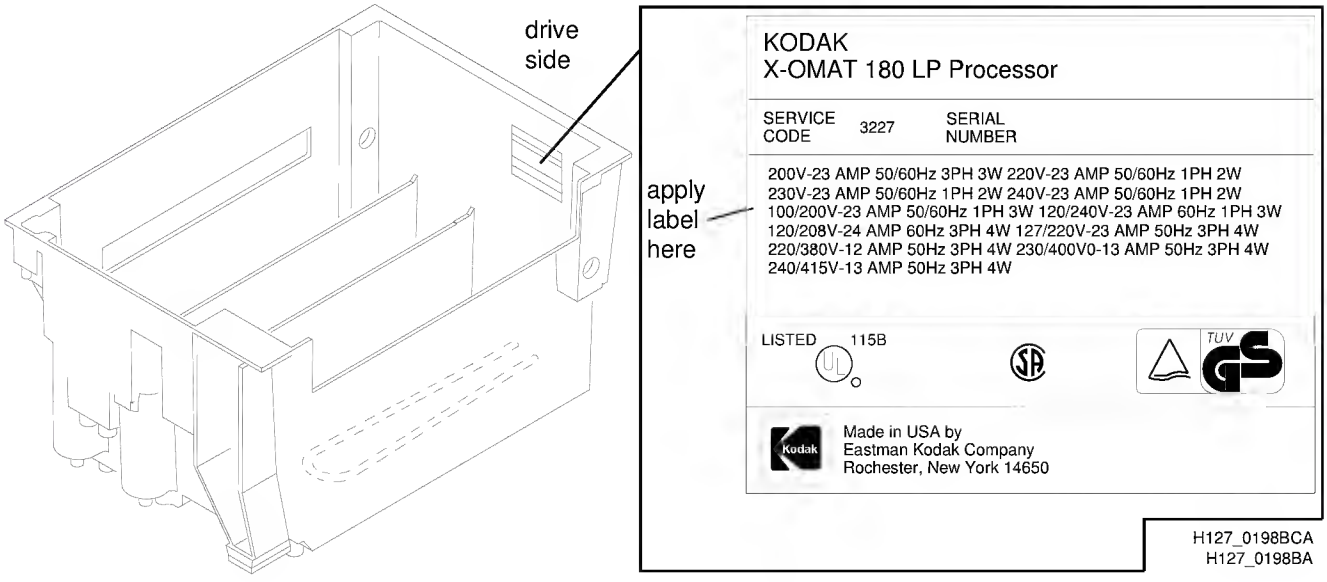
- Connect the main input power wires to TB1 as shown on the Power Connection Charts. Check that the connections are tight.
- Connect wires 1 - 4 from the PROCESSOR to TB1 as shown on the Power Connection Charts.
- Use the JUMPERS from the PREPACK POLYBAG to make the connections on TB2 and TB3 as shown on the Power Connection Charts.

[5] Connect the incoming ground to the GROUND LUG on the PROCESSOR.

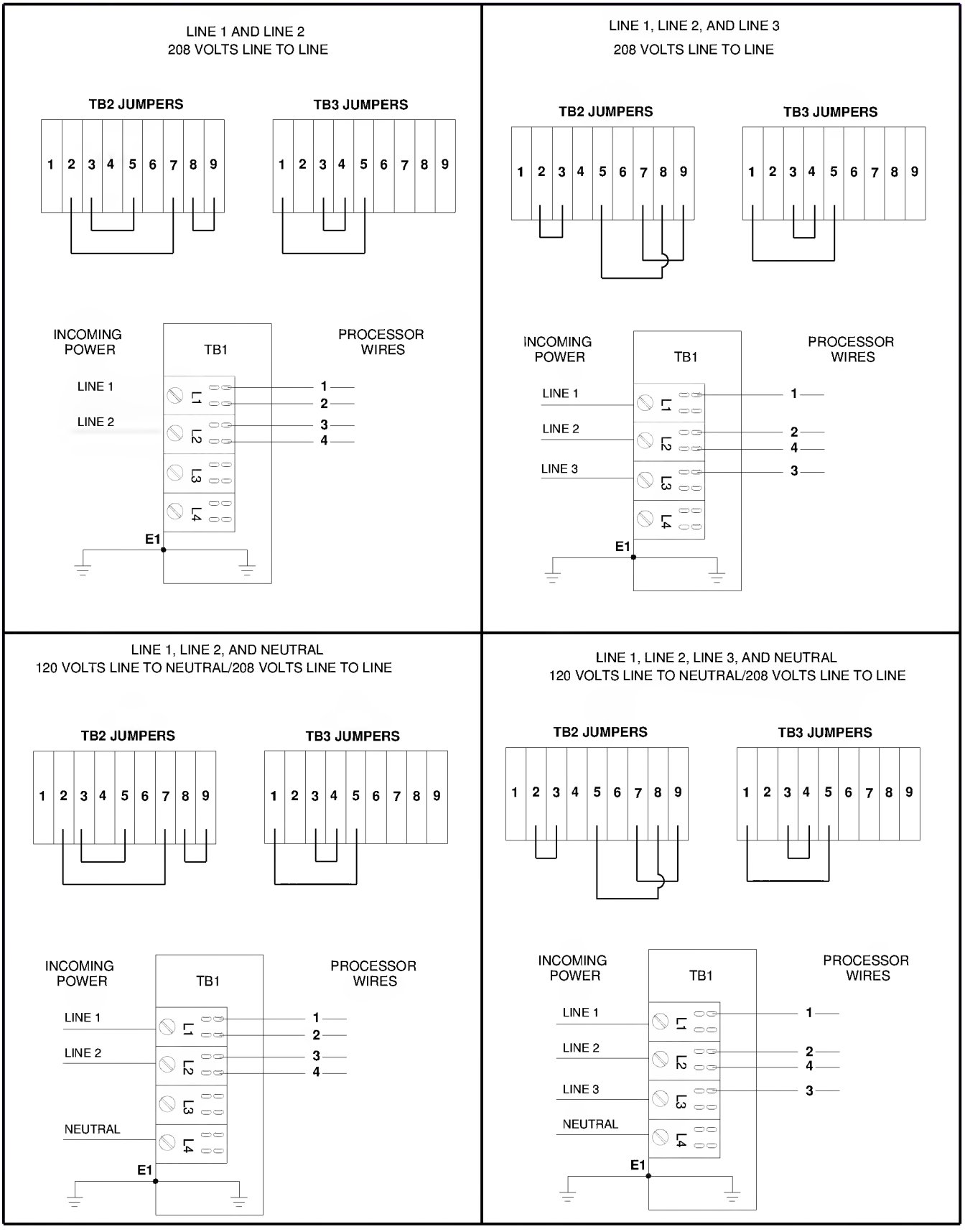


[6] Apply the correct UL/CSA or VDE Label on the drive side, on the inside of the TANK.

UL/CSA or VDE Label



Typical U.S. Power Connection Chart



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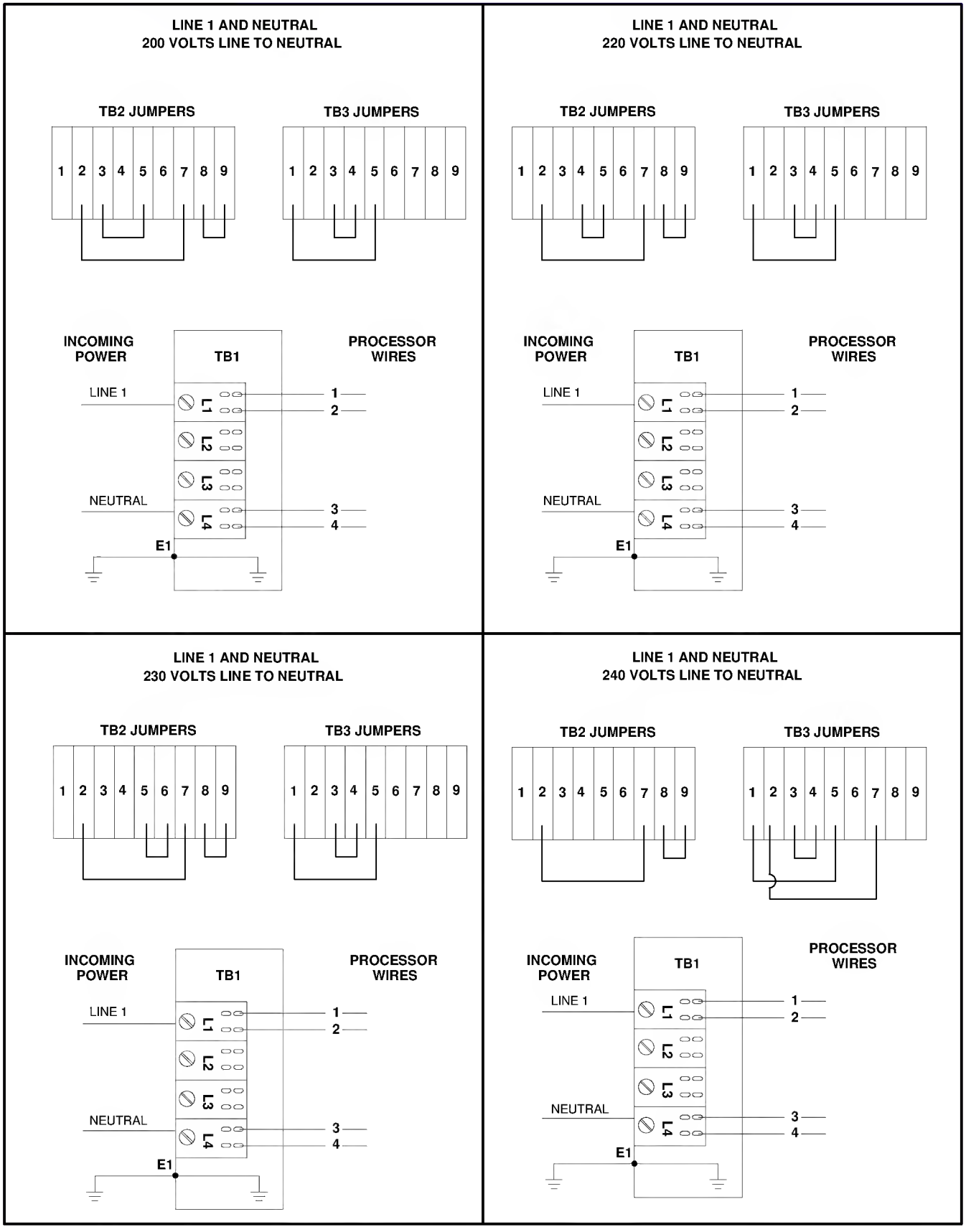
Other Power Connections



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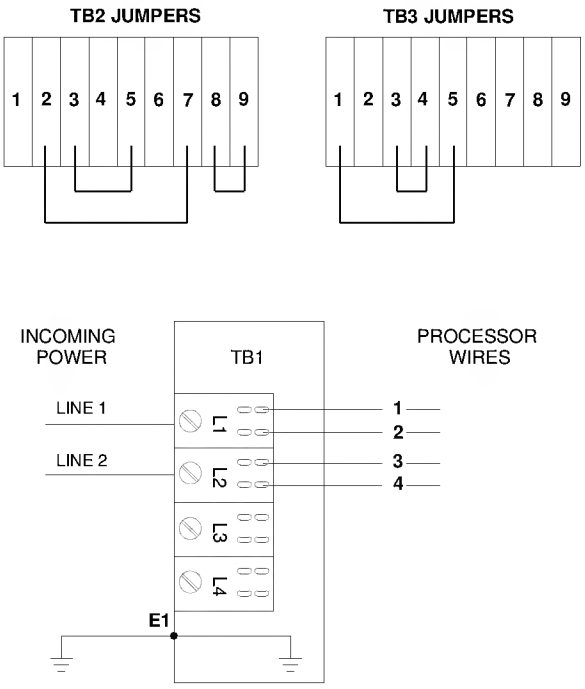
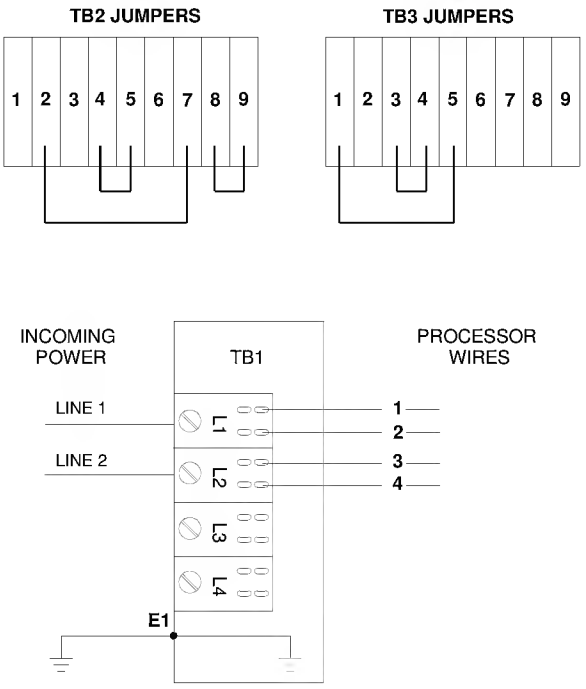
Other Power Connections

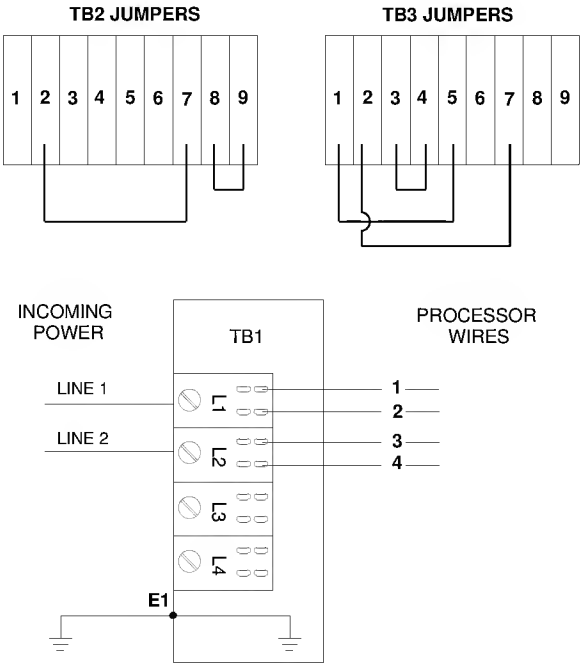
LINE 1 AND LINE 2
200 VOLTS LINE TO LINE



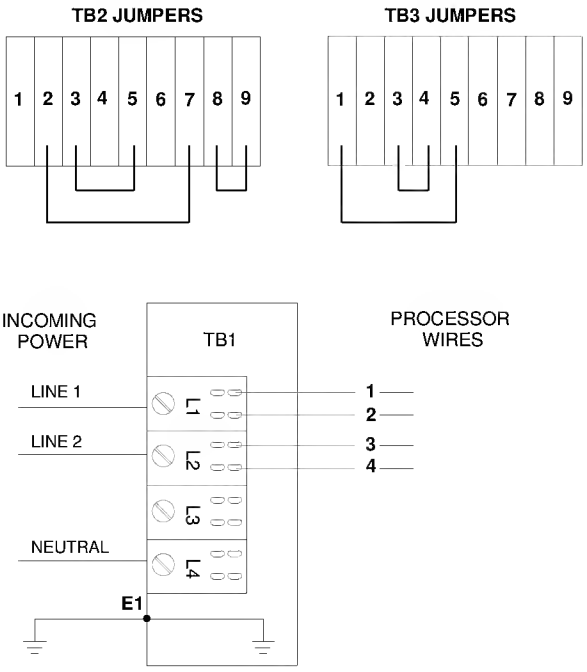
LINE 1 AND LINE 2
220 VOLTS LINE TO LINE



LINE 1 AND LINE 2
240 VOLTS LINE TO LINE



LINE 1, LINE 2, AND NEUTRAL
100 VOLTS LINE TO NEUTRAL/200 VOLTS LINE TO LINE



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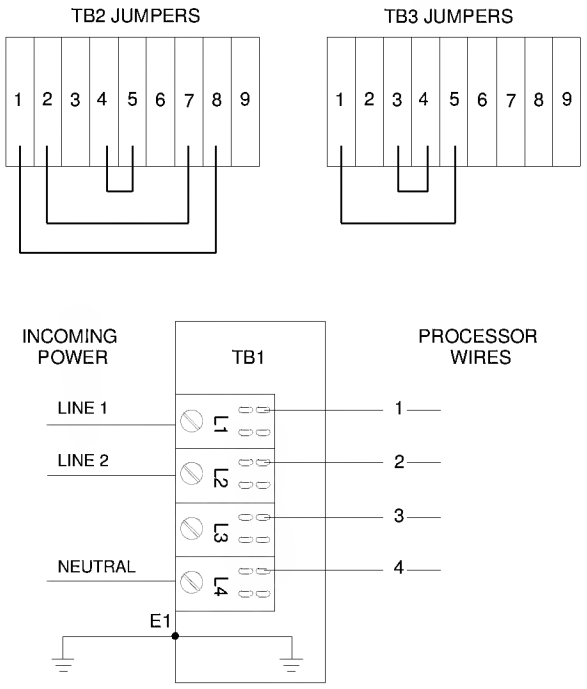
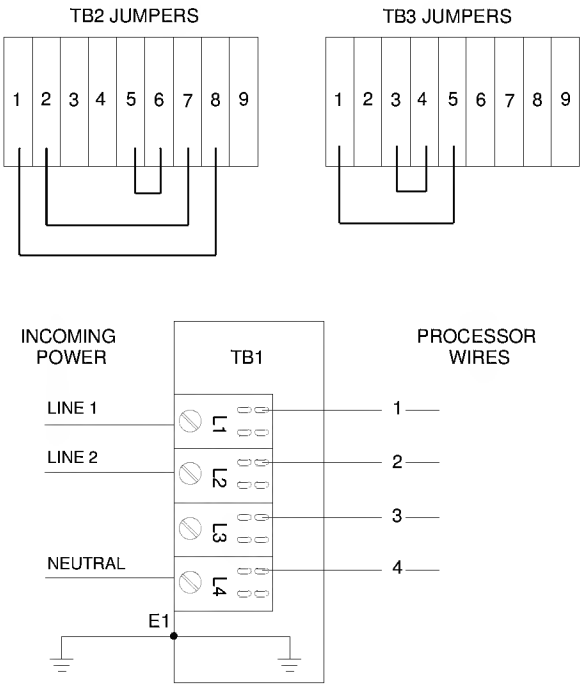
Other Power Connections

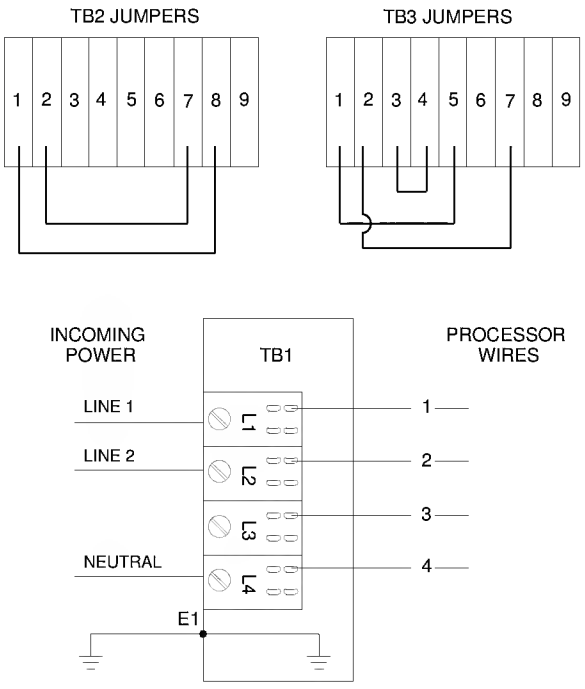
LINE 1, LINE 2, AND NEUTRAL
220 VOLTS LINE TO NEUTRAL/380 VOLTS LINE TO LINE



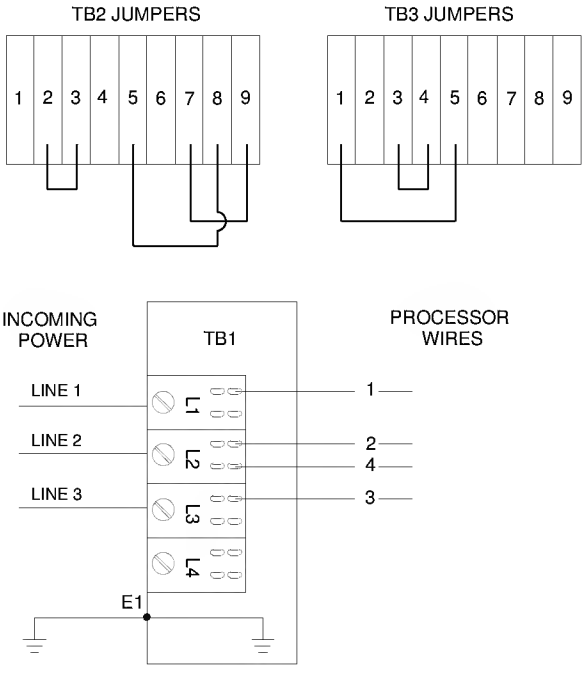
LINE 1, LINE 2, AND NEUTRAL
230 VOLTS LINE TO NEUTRAL/400 VOLTS LINE TO LINE



LINE 1, LINE 2, AND NEUTRAL
240 VOLTS LINE TO NEUTRAL/415 VOLTS LINE TO LINE



LINE 1, LINE 2, AND LINE 3
200 VOLTS LINE TO LINE



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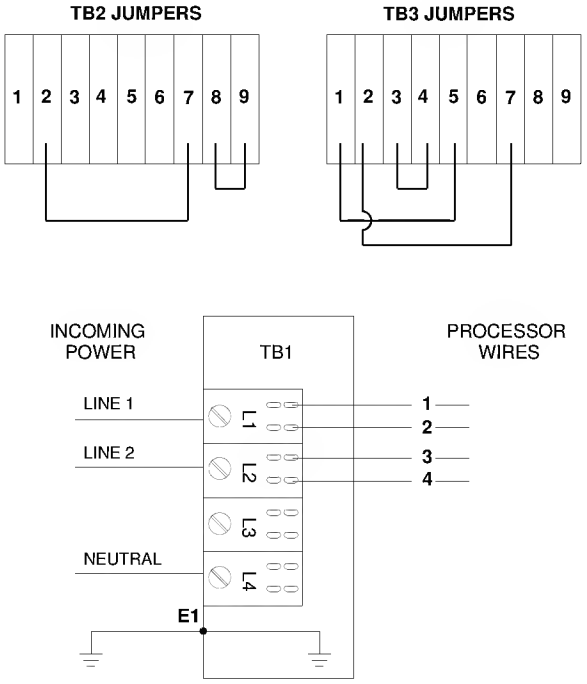
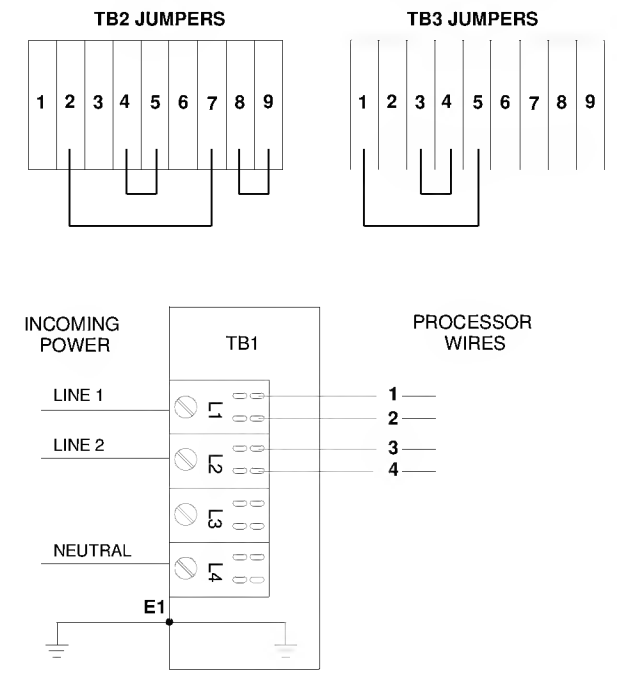
Other Power Connections

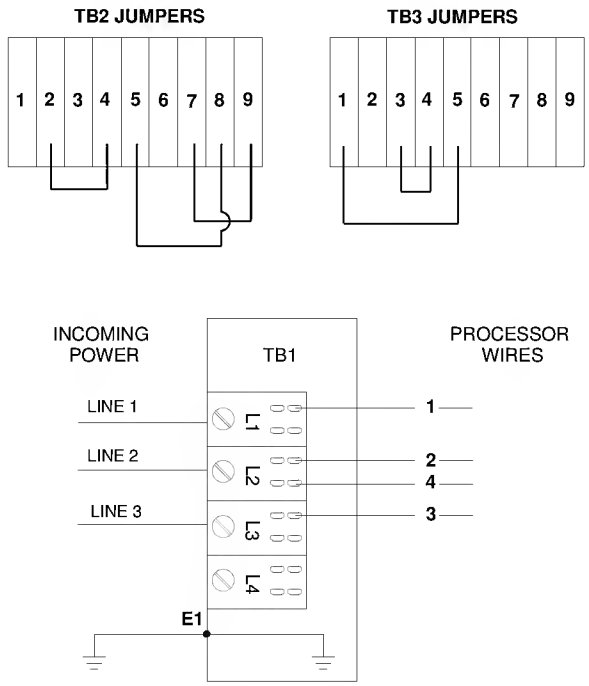
LINE 1, LINE 2, AND NEUTRAL
120 VOLTS LINE TO NEUTRAL/240 VOLTS LINE TO LINE



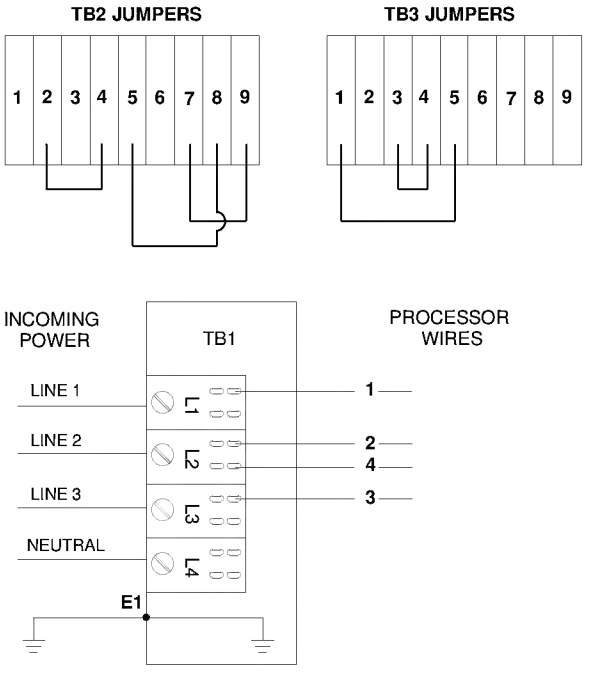
LINE 1, LINE 2, AND NEUTRAL
127 VOLTS LINE TO NEUTRAL/220 VOLTS LINE TO LINE



LINE 1, LINE 2, AND LINE **3**
220 VOLTS LINE TO LINE



LINE 1, LINE 2, LINE **3**, AND NEUTRAL
127 VOLTS LINE TO NEUTRAL/220 VOLTS LINE TO LINE



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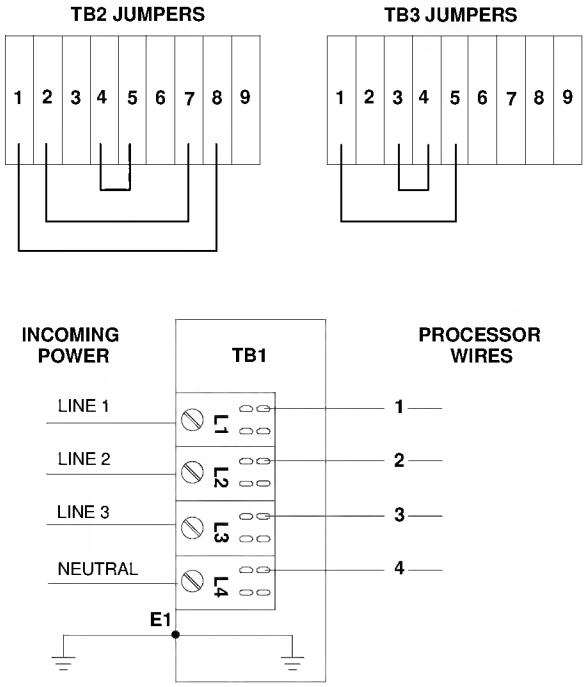
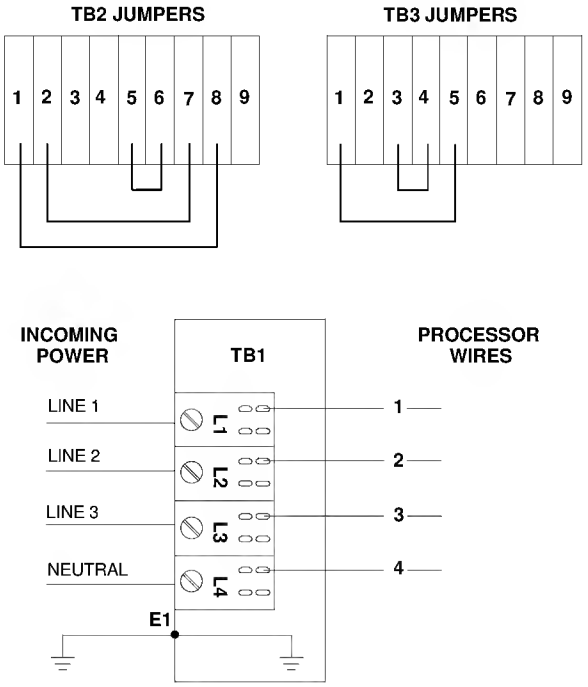
Other Power Connections

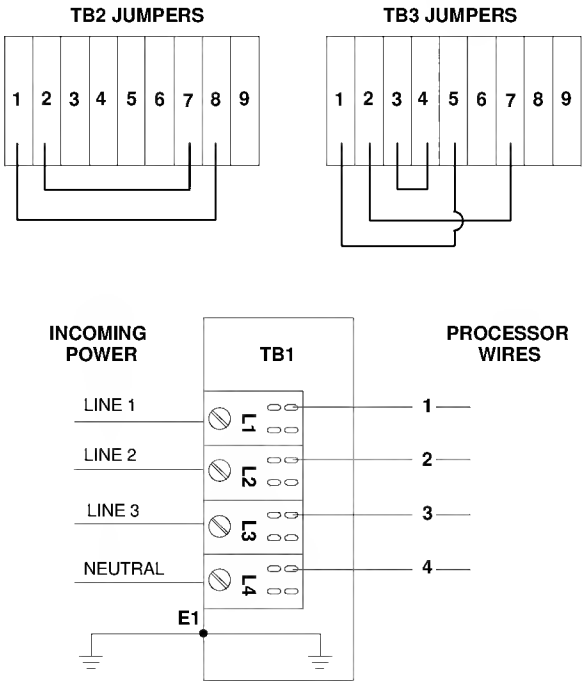
LINE 1, LINE 2, LINE 3, AND NEUTRAL
220 VOLTS LINE TO NEUTRAL/380 VOLTS LINE TO LINE



LINE 1, LINE 2, LINE 3, AND NEUTRAL
230 VOLTS LINE TO NEUTRAL/400 VOLTS LINE TO LINE



LINE 1, LINE 2, LINE 3, AND NEUTRAL
240 VOLTS LINE TO NEUTRAL/415 VOLTS LINE TO LINE



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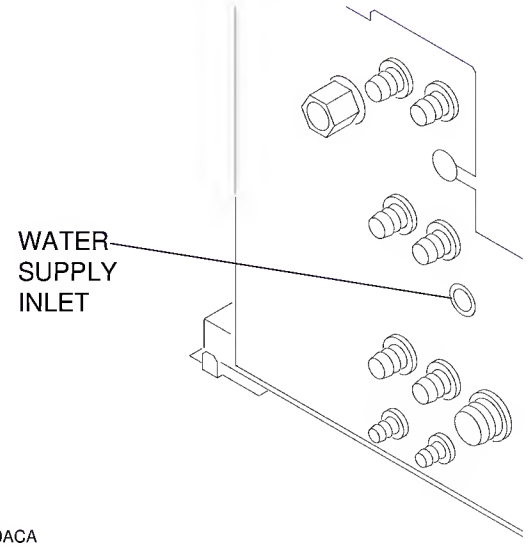
Connecting the Water Supply



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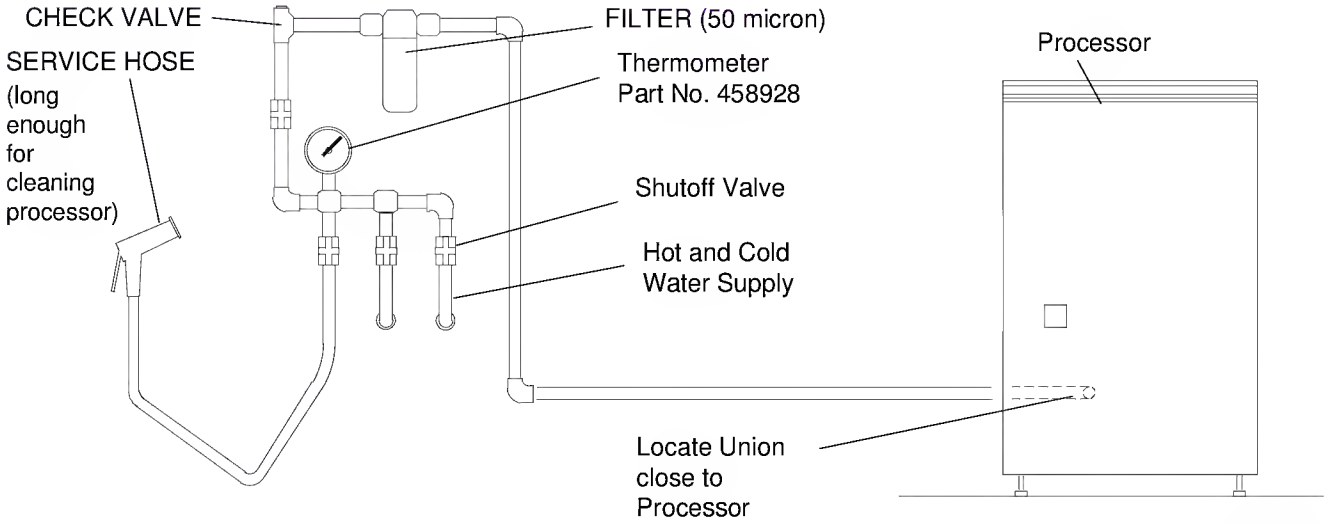
[1] Connect the main water supply to the WATER SUPPLY INLET 3/8 in. female NPT COUPLING.

Note

- A mixing valve is not required for the PROCESSOR if the incoming water temperature is between 4.4 - 32 C (40 - 90 F). However, tempered water is recommended for mixing chemicals and cleaning the TANKS of the PROCESSOR.
- The PROCESSOR has an internal 20 mm (0.8 in.) water gap in the WASH RACK. A check valve (or vacuum breaker) should not be necessary; however, check and observe local codes.
- The PROCESSOR accepts water pressure from 173 - 692 kPa (25 - 100 psi). Pressures above 692 kPa (100 psi) may cause the inlet solenoid to malfunction. Increased noise levels may result in the PROCESSOR if water pressure is in excess of 414 kPa (60 psi). If necessary, install a regulator and set to 345 kPa (50 psi)
- A 50 micron filter is required (not supplied by Kodak) in the input water line.
- An IRON PIPE is not recommended for the water supply to the PROCESSOR.



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Connecting the Drains

Warning

- Drains must be made of chemically resistant, non-corrosive material. Use PVC or the equivalent. Do not use copper or brass.
- The drain must have a minimum diameter of 7.6 cm (3 in.) and be free of obstruction.
- Drain service must comply with all local codes.
- Do not make a solid connection between the HOSES and the drain.

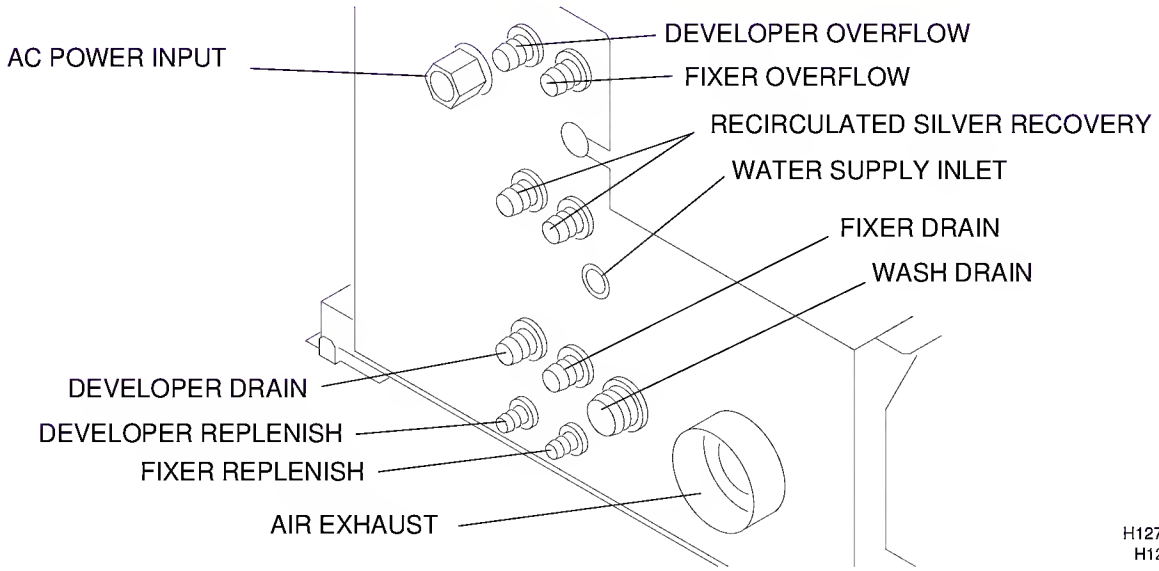
Important

- The floor drain must be within 150 cm (60 in.) of the PROCESSOR.
- The drain must not be higher than 30 cm (12 in.) above the bottom of the PROCESSOR.

Important

Any restriction such as a kinked HOSE can cause the draining wash water to move back into the WASH TANK and the water to overflow. REINFORCED HOSE, which will not kink, and right-angle ELBOWS for entering the drain are available from Service Parts Management. If necessary, order the following parts:

- 696442 - REINFORCED HOSE, $^{5}/_{8}$ in. ID, order by the foot
- 1C4521 - ELBOW, $^{5}/_{8}$ in.
- 696441 - REINFORCED HOSE, 1 in. ID, order by the foot
- 1C4524 - ELBOW, 1 in.



[1] Connect the following FITTINGS to an appropriate device, such as a Silver Recovery Unit, a Waste Holding Container, or the floor drain. Follow all local codes and environmental regulations.

- DEVELOPER OVERFLOW
- DEVELOPER DRAIN
- FIXER OVERFLOW
- FIXER DRAIN
- WASH DRAIN

Note

The TUBING is not provided.

[2] Route the TUBING as required to maintain correct drainage and flow. Check that the HOSES are not kinked or looped.

Connecting the REPLENISHER TANKS and STRAINERS

Note

- Use this recommended procedure for the developer and fixer REPLENISHER TANKS.
- Use the Manufacturer's Instructions to install the AUTOMIXER.

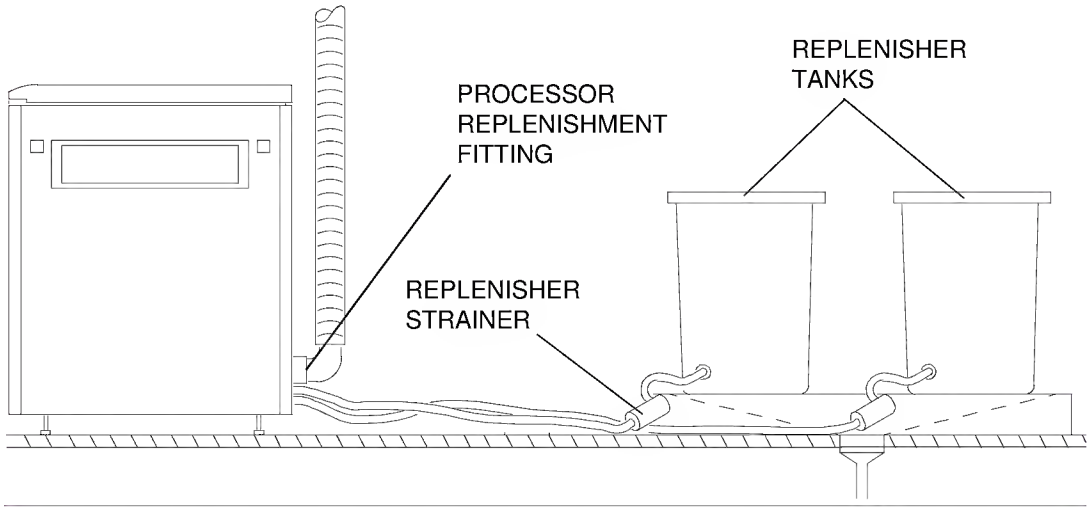
[1] Install one end of the STRAINER onto the TUBING leading from the REPLENISHER TANK.

[2] Install the other end of the STRAINER to the TUBING leading into the PROCESSOR.

[3] Connect the TUBING from the PROCESSOR REPLENISHER FITTING to the REPLENISHER TANK.

Note

The TUBING and CLAMPS are not provided.



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Connecting the EXHAUST DUCT from the DRYER

[1] Connect a 7.62 cm (3.0 in.) EXHAUST DUCT from the PROCESSOR to the BUILDING EXHAUST DUCT with an adjustable gap.

[2] Check the negative exhaust flow of the building. See the Site Specifications, Publication Part No. 4B5476, for more information.

(a) Use AIR METER TL-2431, to measure the negative static pressure in the EXHAUST DUCT. Measure 30.5 cm (12 in.) from the end that will be connected to the PROCESSOR.

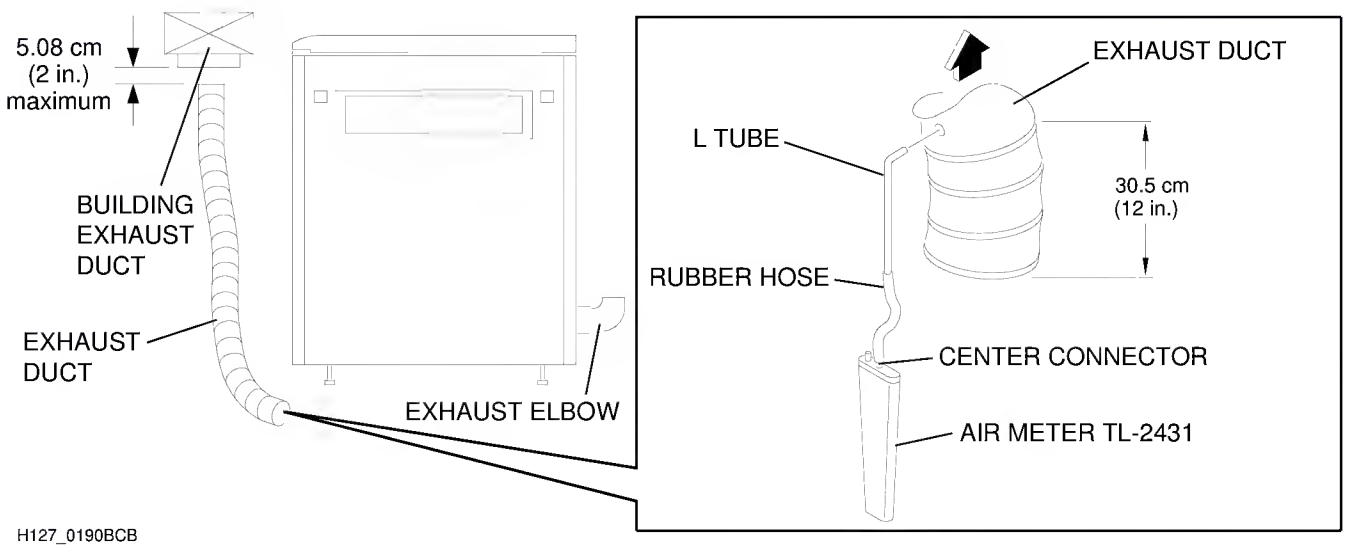
(b) To obtain the required negative static pressure, adjust the gap between the BUILDING EXHAUST DUCT and the EXHAUST DUCT from the PROCESSOR.

Table 3–2 Measuring the Negative Static Pressure

Diameter of the EXHAUST DUCT	Negative Static Pressure, Water Head	
	MIN	MAX
76 mm (3 in.)	0.76 mm (0.03 in.)	1.02 mm (0.04 in.)
102 mm (4 in.)	0.25 mm (0.01 in.)	0.51 mm (0.02 in.)

[3] Attach the EXHAUST ELBOW to the PROCESSOR with the self-tapping SCREW provided in the PREPACK POLYBAG.

[4] Connect the EXHAUST DUCT to the EXHAUST ELBOW on the PROCESSOR.



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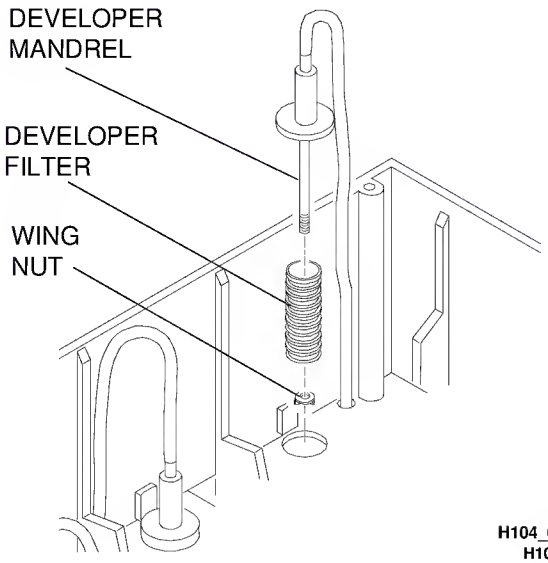
Note

The *Kodak* AUXILIARY VENTILATION FAN KIT is available for use with all *Kodak* PROCESSORS to aid in meeting site specifications for ventilation. The KIT is available through Service Parts Management. Order the correct KIT for your voltagae requirements.

Part No.	Description
264503	*Kodak* Auxiliary Ventilation Fan Kit / 110 V (operates on 110 V AC)
8B7105	*Kodak* Auxiliary Ventilation Fan Kit (operates on 95 to 250 V AC, 47 to 63 Hz)

Installing the DEVELOPER FILTER



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[1] Rotate the DEVELOPER MANDREL so the notch in the top of the DEVELOPER MANDREL is aligned with the LEVEL SENSOR HOUSING CLIP.

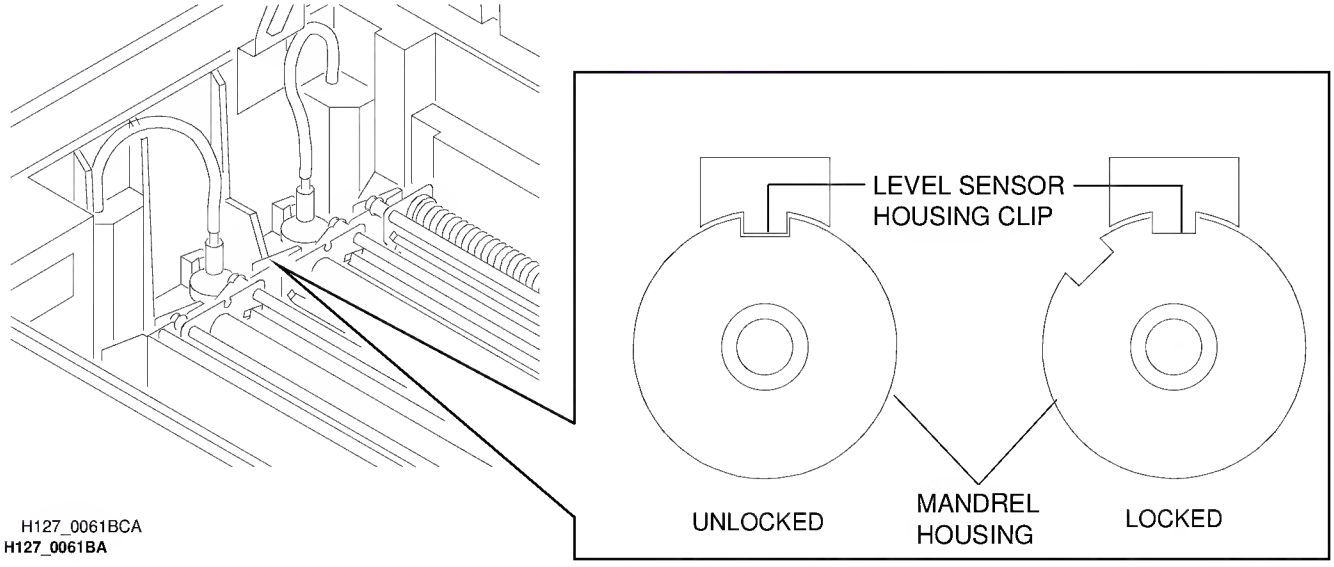
[2] Remove the DEVELOPER MANDREL.

[3] Remove the WING NUT from the DEVELOPER MANDREL.

[4] Install the DEVELOPER FILTER onto the DEVELOPER MANDREL. Tighten the DEVELOPER FILTER with the WING NUT.

[5] Install the DEVELOPER FILTER and the DEVELOPER MANDREL into the DEVELOPER TANK.

[6] Check that the DEVELOPER MANDREL is correctly seated and that the CLIP holds it in position.



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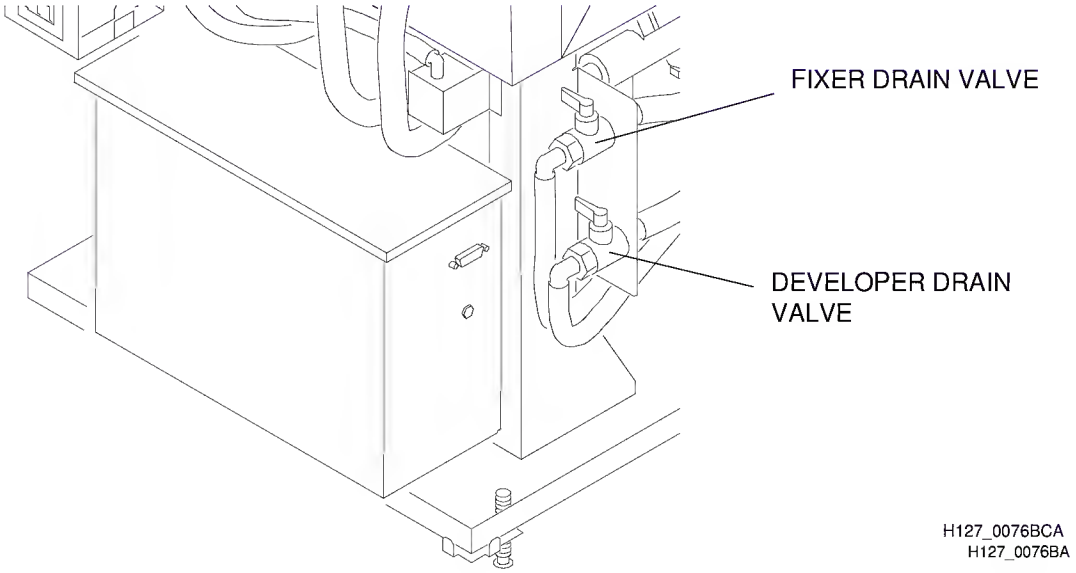
Section 4: Checking for Correct Operation

Checking the Components and SENSORS



[1] Close the DEVELOPER and FIXER DRAIN VALVES.

[2] To allow correct operation of the LEVEL SENSORS, add 470 mL (16 fl oz) of developer to the DEVELOPER TANK and 470 mL (16 fl oz) of fixer to the FIXER TANK.

[3] Slowly, fill the PROCESSOR DEVELOPER and FIXER TANKS with clean water to the overflow limit.

[4] Move the wall POWER SWITCH to the “ON” position.

[5] Move the MAIN CIRCUIT BREAKER CB1 on the PROCESSOR to the “|” position.

Important

The PROCESSOR initializes a self-check procedure.

[6] Check that the WASH WATER SOLENOID, DRYER BLOWER, DRYER HEATER, and RECIRCULATION PUMP energize.

[7] Check that solutions can drain smoothly from all drain and OVERFLOWS.

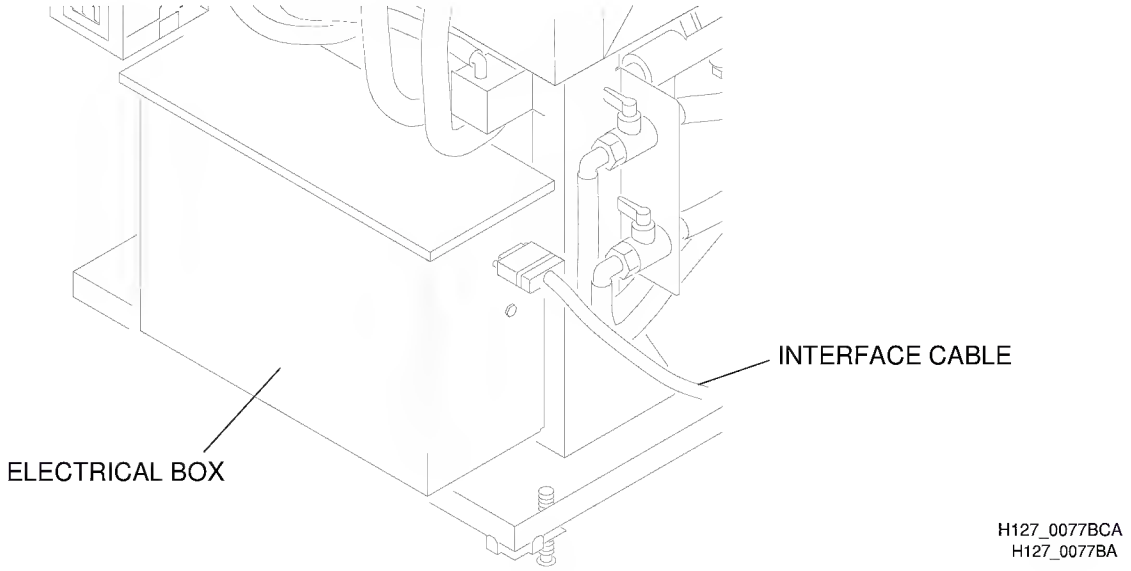
Note

If the RECIRCULATION PUMP does not energize, check that the FIXER and DEVELOPER TANKS are full. If the TANKS are full and the RECIRCULATION PUMP does not energize, do the following steps:

a. Connect the PORTABLE COMPUTER, using the INTERFACE CABLE TL-4391 and the DIAGNOSTICS DISKETTE 5B6278. Enter the "Specific Mode" to manually operate the RECIRCULATION PUMP.

b. To allow correct operation of the LEVEL SENSOR PROBES, to clear air from the plumbing system, and to mix the solutions, energize the RECIRCULATION PUMP and wait approximately 5 seconds.

c. Return the PROCESSOR to normal operating mode.



[8] With the EXTERNAL COVERS removed, check the complete plumbing system for leakage.

Note

For instructions on connecting the PORTABLE COMPUTER and using the DIAGNOSTICS DISKETTE 5B6278, see the User Instructions packed with the DIAGNOSTICS DISKETTE.

[9] Enter the "Specific Test Mode" and select the "Processor Component Test".

[10] Check the operation of:

- REPLENISHMENT PUMPS
- RECIRCULATION PUMPS
- DRYER HEATER and BLOWER
- WASH INPUT WATER SOLENOID

[11] Enter the "Processor Sensor Test Mode".

[12] Check the operation of:

- FILM DETECTOR SENSORS 1 and 2
- EXIT SENSOR
- COVER SWITCH
- DEVELOPER and FIXER TANK SENSORS

[13] If installing a 180 LP PROCESSOR, advance to Step 1 on Page 39. If the PROCESSOR is a 180 LPS PROCESSOR, check the operation of the SORTER by doing the next procedure.

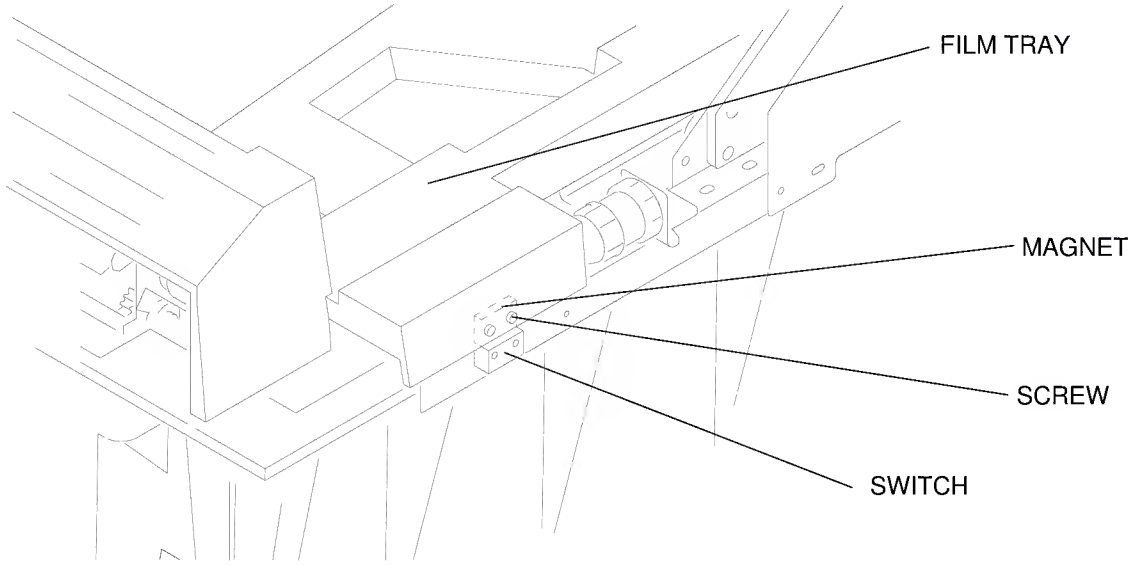
Checking the SORTER, 180 LPS PROCESSOR Only

[1] Select “Specific Test Mode”.

[2] Select “Sorter Sensor Test”.

[3] With the FILM TRAY in position, check that the PORTABLE COMPUTER displays “Film Tray Interlock ON”. If necessary, adjust the SWITCH and MAGNET.

[4] Remove the FILM TRAY, and check that the PORTABLE COMPUTER displays “Film Tray Interlock OFF”.



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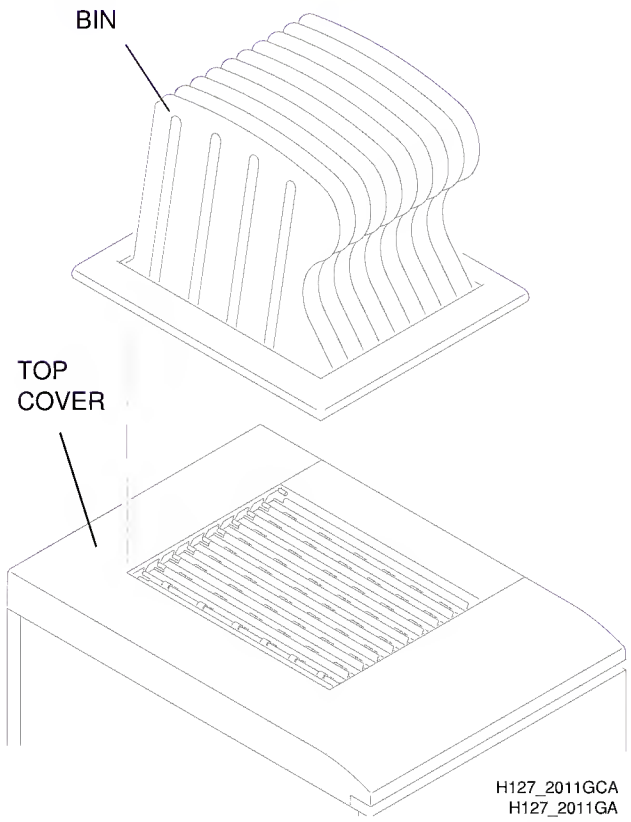

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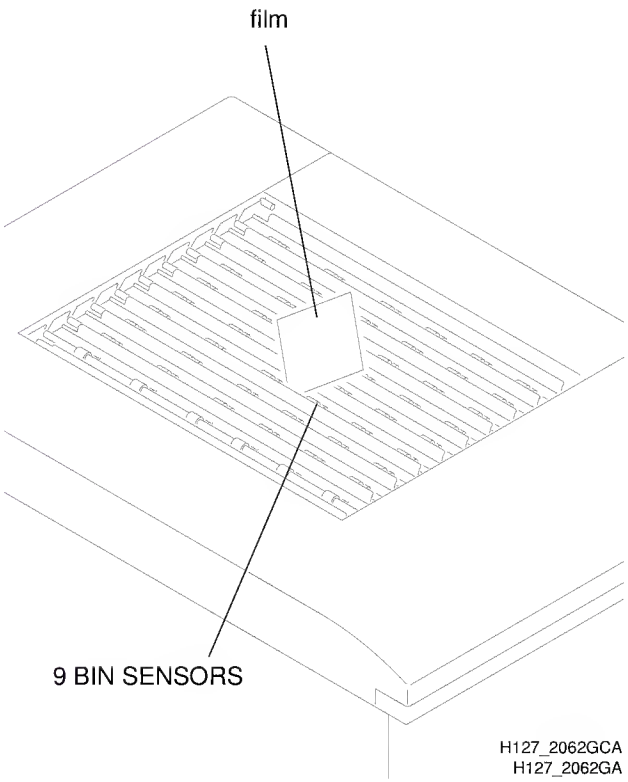
H127_2011GA

[5] Close the TOP COVER and install the BIN.

[6] Check that the PORTABLE COMPUTER displays "Bin Assembly In Place".

[7] Remove the BIN, and check that the PORTABLE COMPUTER displays "Bin Assembly Not In Place".



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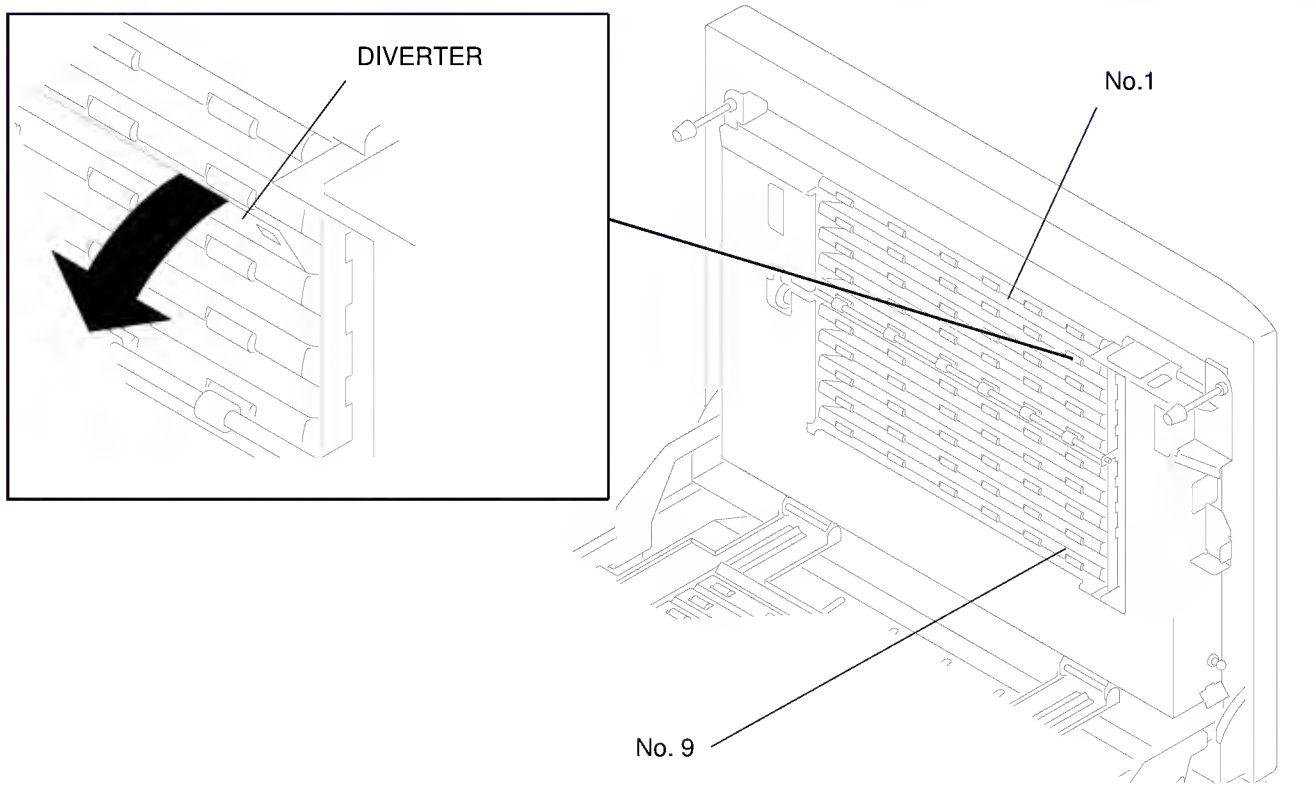
[8] Check that the 9 BIN SENSORS operate correctly, by blocking each BIN SENSOR with a piece of paper or film. If the BIN SENSORS do not operate correctly, see the diagnostic procedures in the "SORTER" section at the end of the service publication for the PROCESSOR.



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[9] Go to the "Sorter Component Test Mode" for the SORTER.

[10] Using the PORTABLE COMPUTER, energize and de-energize DIVERTER No. 1.

[11] Check that DIVERTER No.1 operates smoothly.

[12] Check the other DIVERTERS. If the DIVERTERS do not operate correctly, see the diagnostic procedures in the "SORTER" section at the end of the service publication for the PROCESSOR.

[13] To energize the INTERLOCK SWITCH, install the BIN.

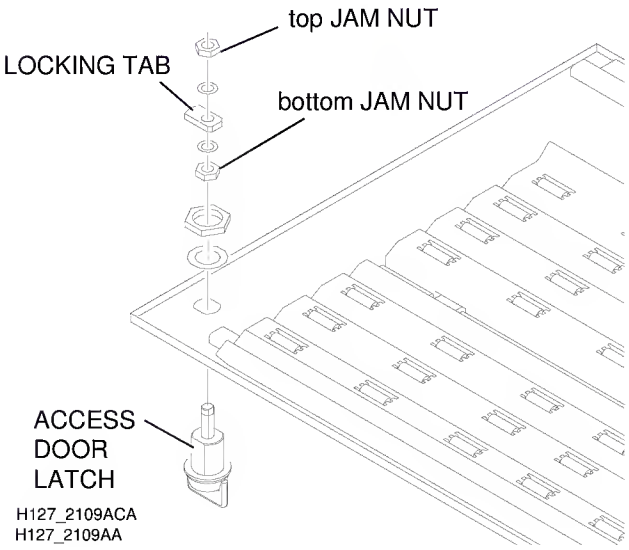
[14] Using the PORTABLE COMPUTER, energize the transport MOTOR of the SORTER.

[15] Select "Transport Speed Status".

[16] Check that:.

- The transport of the SORTER operates correctly.
- The PORTABLE COMPUTER displays the transport speed of the SORTER.

Checking the Adjustment of the ACCESS DOOR LATCH on the SORTER



[1] Close the ACCESS DOOR and rotate the 2 ACCESS DOOR LATCHES to the locked position.

[2] Check each LATCH for play between the SORTER FRAME and the ACCESS DOOR.

[3] If necessary, adjust one or both LATCHES for no play:

- **(a)** Open the ACCESS DOOR.
- **(b)** the top JAM NUT.
- **(c)** For the correct position of the LOCKING TAB, move the bottom JAM NUT up or down.
- **(d)** Tighten the top JAM NUT.

[4] Close the ACCESS DOOR and rotate the 2 ACCESS DOOR LATCHES to the locked position.

[5] Check that no play is between the SORTER and the ACCESS DOOR.

[6] Make more adjustments if necessary.

Continuing to Check the Components

[1] Enter the “Automatic Mode” and select “Processor State”. Allow the solution temperatures to stabilize.

Note

Approximately 30 minutes may be needed for the PROCESSOR to warm up.

[2] Check that:

- DEVELOPER temperature remains at setpoint.
- FIXER temperature remains at setpoint or above.
- DRYER temperature remains at setpoint.

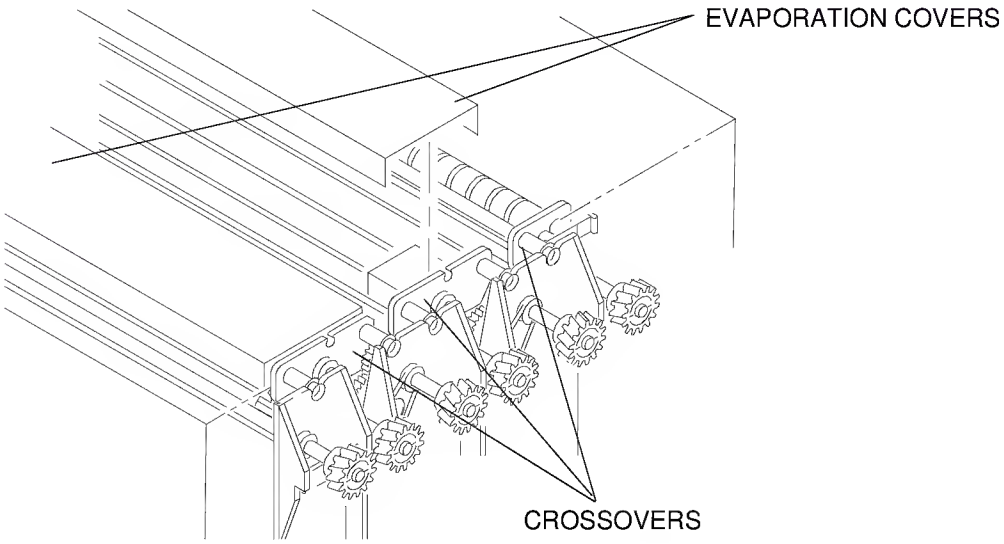
[3] Install:

- all PANELS
- EVAPORATION COVERS
- WET SECTION COVER

Note

Use 2 No. 10-32 SCREWS, 2 LOCK WASHERS, and 2 WASHERS provided in the PREPACK POLYBAG for installation of the FEED END PANEL.

[4] On the 180 LPS PROCESSOR only, install the FILM TRAY and BIN.



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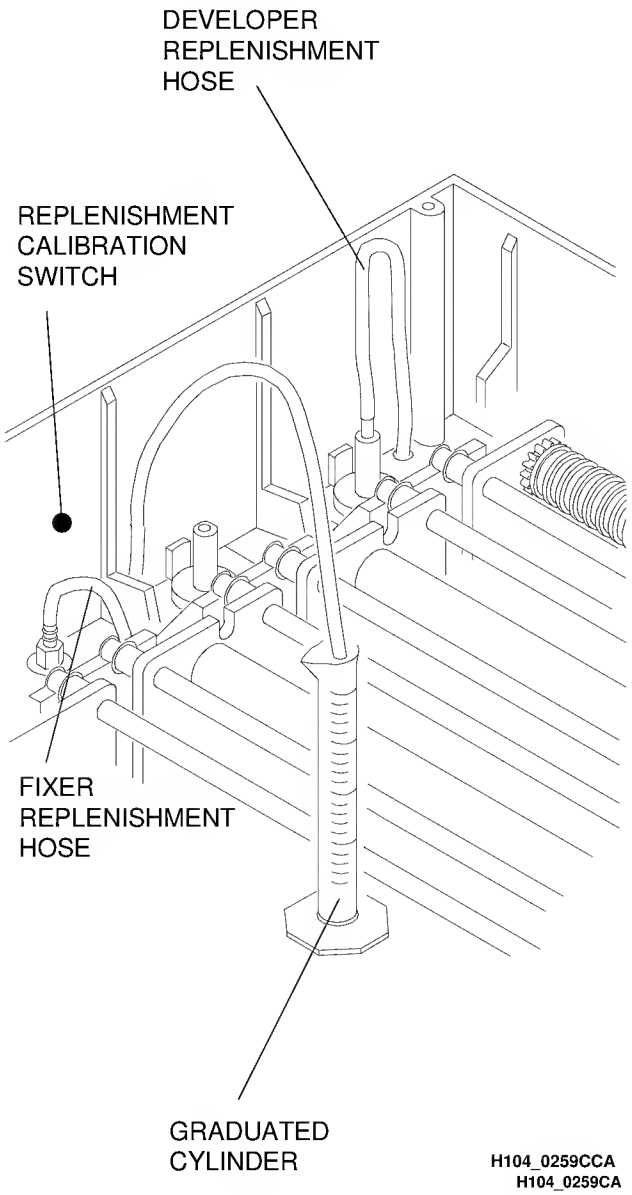
Calibrating the Replenishment System

This procedure allows you to calibrate the replenishment system by determining the actual rate solution flows through the REPLENISHMENT PUMPS. The volume of the solution pumped by one of the PUMPS during a set period will be measured and entered into the MICROPROCESSOR via the DISPLAY PANEL on the PORTABLE COMPUTER. The MICROPROCESSOR computes the rate of solution flow through the PUMP, then adjusts the time that the PUMP must operate to match the replenishment volume set by the operator. The same procedure is then used to calibrate the other PUMP.



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Note

The volume actually measured during this procedure is **not** the **volume** delivered for a 35 x 43 cm (14 x 17 in.) sheet of film.

[1] Select “Replenishment Calibration” from the Diagnostics Main Menu.

[2] Select “Developer Calibration Volume” or “Fixer Calibration Volume”.

Caution

Wear protective eyewear during the following procedure. Replenishment solutions are pumped quickly and may splash.

[3] Open the TOP COVER of the PROCESSOR.

[4] Disconnect the FIXER REPLENISHMENT or DEVELOPER REPLENISHMENT HOSE and place it into the GRADUATED CYLINDER.

[5] Press the REPLENISHMENT CALIBRATION SWITCH on the inside wall of the TANK.

[6] Measure and record the volume of solution in the GRADUATED CYLINDER.

[7] Discard the solution in the GRADUATED CYLINDER.

[8] Do Steps 5 through 7 at least 2 more times.

[9] Determine the average of the 3 volumes.

[10] Connect the REPLENISHMENT HOSE to the FIXER or DEVELOPER MANDREL.

[11] Close the TOP COVER of the PROCESSOR.

[12] Enter the average volume from Step 9 into the PORTABLE COMPUTER.

[13] Move the MAIN CIRCUIT BREAKER CB1 on the PROCESSOR to the “O” position.

[14] Drain all TANKS.

[15] See “Mixing the Chemistry” and “Setting Up the Processor” in the User’s Manual, Publication Part No. 4B5475.

Section 5: Publication History

Print Date	Pub. No.	ECO No.	Affected Pages	File Name	Notes
July 1995	1C7836	2619-099	All pages	ii3198_1_099.doc	First printing
February 1996	1C7836	2619-124	All pages	ii3198_1_124.doc	Added 2 procedures for adjusting the Sorter. Listed another Fan Kit.
Sep 1997	1C7836		All pages	ii319800	First CD-ROM printing. Content is identical to Feb 1996 version; formatting may vary from print version.

ii319800

Printed In USA

HEALTH SCIENCES DIVISION

EASTMAN KODAK COMPANY • ROCHESTER, N.Y. 14650